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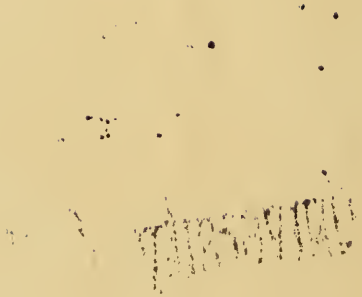

University Record

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University of Florida

GAINESVILLE, FLORIDA

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Catalog 1919-20

Announcements 1920-21

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University of Florida

GAINESVILLE, FLORIDA

Catalog 1919-20

Announcements 1920-21

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UNIVERSITY CALENDAR

1920-1921

1920—	June 14, *Monday*	Summer School begins.
	August 6, *Friday*	Summer School ends.
	September 20, *Monday*	Summer Recess ends.
		Examinations for Admission.
		Registration of Students.
	September 21, *Tuesday*	First Semester begins.
	September 28, *Tuesday*	Livestock Roundup begins.
	October 2, *Saturday, 2:00 p. m.*	Re-examinations.
	2:30 p. m.	Meeting of General Faculty.
	October 4, *Monday*	School for County Demonstration Agents begins.
	October 12, *Tuesday*	Citrus Seminar begins.
	November 25, *Thursday*	Thanksgiving Holiday.
	December 6, *Monday*	Boys' Club Week begins.
	December 18, *Saturday, 12:00 noon*	Christmas Recess begins.
1921—	January 1, *Saturday*	Christmas Recess ends.
	January 3, *Monday, 8:00 a. m.*	Resumption of Classes.
		Review Courses for Teachers begin.
	January 4, *Tuesday*	Ten-Day Courses for Farmers begin.
	February 5, *Saturday*	First Semester ends.
	February 7, *Monday*	Second Semester begins.
	February 19, *Saturday, 2:30 p. m.*	Meeting of General Faculty.
	March 5, *Saturday, 2:00 p. m.*	Re-examinations.
	June 4, *Saturday, 2:30 p. m.*	Meeting of General Faculty.
	June 5 to 7	Commencement Exercises.
	June 5, *Sunday*	Baccalaureate Sermon.
	June 6, *Monday*	Oratorical Contests.
		Annual Alumni Meeting.
		Class-Day Exercises.
	June 7, *Tuesday*	Graduating Day.
	June 8, *Wednesday*	Summer Recess begins.
	June 13, *Monday*	Summer School begins.

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Assistant Professor of Civil Engineering.

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*Also Summer School 1919.

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AMERICO RAFFAELE MARCHIO,
Instructor in Wind and String Instruments and Director of Cadet Band.

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Fellow and Assistant in Mathematics.

HARRY REGINALD DeSILVA,
Student Laboratory Assistant in Psychology.

ALFONSO FERRARO MASSARO,
Student Laboratory Assistant in Chemistry.

MARION BROOKS MATLACK,
Student Laboratory Assistant in Chemistry.

ABRAHAM MAURICE WOLFSON,
Student Laboratory Assistant in Chemistry.

EARLE BARBOUR PAXTON,
Student Assistant in Physics and Electrical Engineering.

McCOY HUBBARD,
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ROBERT TURNER HARGRAVE,
Student Assistant in Industrial Arts.

WILLIAM VICTOR DeFLORIN,
Student Assistant in Physics.

HARRY HERMAN BUSHNELL,
Student Assistant in Mechanic Arts.

VAN ELLIS HUFF,
Student Assistant in Drawing.

JOHN PEYTON LITTLE, Jr.,
Student Assistant in Physics.

JOHN ALLISON GILLIS,
Student Assistant in History and Botany.

FREDERICK Y. DURRANCE,
Student Assistant in Science.

JUNE RAWLS GUNN,
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ANTHONY REGERO,
Student Assistant in Band and Orchestra.

CHARLES JAMES REGERO,
Student Assistant in Band and Orchestra.

THOMAS DUKE WILLIAMS,
Student Assistant in English.

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Mathematics and Methods.

C. G. FISHER, PH.D.,*
Bird Study.

F. S. WETZEL, B.S.,*
Science.

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CHARLES F. DAVIS, M.S.,
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In Charge Department of Extension Teaching, General Extension Division.

MISS MARY ELLEN FOLEY, B.A., B.J.,
In Charge Department of Instruction by Lectures, General Extension Division.

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MISS ELLA M. ALLISON, PH.B.,
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MRS. MARGARET PEELER,
Housekeeper.

MISS RUBY NEWHALL,
Secretary to the Experiment Station.

MISS LENA REEVES HUNTER,
Assistant to the Auditor.

HERBERT M. WILLIAMS,
Bookkeeper and Cashier.

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The President of the University is *ex officio* a member of all Standing Committees

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ALUMNI

Professors Floyd, Anderson, Willoughby, Trusler, Perry.

ATHLETICS

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DISCIPLINE

Professors Crandall, Fulk, Leigh, Ward, Cody.

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Professors Anderson, Farr, Rolfs, Benton, Trusler, Cox.

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STUDENT PUBLICATIONS

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Professor of Military Science and Tactics.

FIRST SERGEANT E. A. KOPP, Infantry, U. S. Army,
FIRST SERGEANT DALLAS B. HUNDLEY, Infantry, U. S. Army,
Assistants to the Professor of Military Science and Tactics.

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GENERAL INFORMATION

RECENT GIFTS

Many of the state educational institutions of the South —among them those of Florida—have in recent years received substantial gifts. The University feels confident that its friends will continue to help in its upbuilding. All gifts, of whatever nature or value, will be gratefully acknowledged.

See also under Museum, Loan Funds, and College of Agriculture.

CHAIR OF SECONDARY EDUCATION.—This opportunity is taken of acknowledging the annual gift of the General Education Board, of New York, of seventeen hundred and fifty dollars ($1,750) toward the establishment and maintenance of a Professorship of Secondary Education.

INSTRUCTORSHIP OF BIRD-STUDY.—Thanks are tendered the National Association of Audubon Societies for the courses in Bird-Study offered thru its instrumentality during the past five summers.

SCHOLARSHIPS.—No method of contributing to the spread of higher education is more beneficent than to make it possible for a worthy but poor young man to attend his state university. The establishment of several scholarships is gratefully acknowledged—see pages 35 and 77.

Arthur Ellis Ham Memorial Scholarship.—The University here renders reverent and grateful homage to the memory of a former student, Captain Arthur Ellis Ham, who fell in battle at St. Mihiel on Sept. 14, 1918.

His will provided that one half of his military insurance should go to Smith College, of which his widow, Mrs. Elizabeth C. Ham, is a graduate, and the other half to the University, to be used in establishing at each of these institutions "a scholarship for the annual benefit of some needy and deserving student". Mrs. Ham at once generously sent checks for the full amount, five thousand dollars ($5,000) each, to Smith and to Florida. The Board of Control gratefully accepted the bequest, and the Faculty, in its resolutions of sympathy and thanks, added that the scholarship should be known as the "Arthur Ellis Ham Memorial Scholarship".

Y. M. C. A. SCHOLARSHIPS.—The War Work Council of the Y. M. C. A. generously set aside sufficient funds to permit of the giving during the past session of twenty-eight scholarships, of an average value of one hundred dollars ($100), to students that had served with the colors during the World War.

HISTORY

Florida has always manifested interest in higher education, and with this in mind has formulated many plans and established many institutions. As early as 1824 the foundation of a university was discussed by the Legislative Council. In 1836 trustees for a proposed university were named, but apparently accomplished nothing. *(Memoirs of Florida,* 1,168.)

Upon its admission to the Union in 1845, the State was granted by the General Government nearly a hundred thousand acres of land, the proceeds from which were to be used to establish two seminaries, one east and one west of the Suwanee River. This led to the foundation, at Ocala, in 1852, of the East Florida Seminary and of the West Florida Seminary, at Tallahassee, in 1856. The former of these institutions was, however, removed in 1866 to Gainesville.

The State Constitution of 1868 contained provisions for establishing and maintaining a university *(Art.* VIII, *Sec.* 2), pursuant to which the Legislature passed the next year "An Act to Establish a Uniform System of Common Schools and a University". Other attempts to establish a university were made in 1883 by the State Board of Education and in 1885 by the Legislature. Furthermore, the State Constitution of 1885 expressly permitted special legislation with regard to a university.

Meanwhile, in 1870, the Legislature had passed "An Act to Establish the Florida Agricultural College". This not fully meeting the terms of the "Land-Grant College" Act of Congress of 1862, the Legislature passed in 1872 a supplementary Act and the State received from the General Government ninety thousand acres of land in support of the proposed college. A site for this was selected in 1873, in 1875, and again in 1883—the third to be chosen being Lake City. Here in the autumn of 1884 the work of instruction was begun. An attempt was made in 1886 by this institution to have its name changed to the "University of Florida", a title it finally secured

by the Legislative Act of 1903. Before this, in 1887, the Florida Agricultural Experiment Station had, in accordance with the terms of the Hatch Act, been established as one of its departments.

During these years, in addition to the three mentioned, there had come into existence three other State institutions of higher education: The Normal School, at DeFuniak Springs, the South Florida College, at Bartow, and the Agricultural Institute, in Osceola County. In 1905, however, inasmuch as these six institutions had failed to make satisfactory differentiation among themselves and to separate their work sufficiently from that of the high schools of the State, and inasmuch as the cost of maintaining all seemed disproportionate to the results obtained, the Legislature passed the "Buckman Act", the effect of which was to merge the six into the "Florida Female College" and the "University of the State of Florida". In 1909 an Act of the Legislature changed the name of the one to the "Florida State College for Women", of the other to the "University of Florida".

During the first session of the University a distinct Normal School, which included two years of Sub-Freshman grade, was maintained. In addition to this, instruction was given in agriculture and in engineering, as well as in the usual collegiate branches. Candidates for admission to the Freshman class must have finished the eleventh grade of a high school. The Agricultural Experiment Station was a separate division, altho members of its Staff gave instruction to the students and the President of the University acted as its Director. The next year the Staff were required to devote their time exclusively to Station activities, and a special Director was elected. The Normal School was abolished and instruction in pedagogy was transferred to the University proper. Two years of Sub-Freshman work were, however, still offered.

Upon the election in 1909 of Dr. A. A. Murphree to the presidency, steps were taken to reorganize the University. The present organization dates from 1910. The College of Law was added in 1909 and the departments offering instruction mainly to normal students were organized into a college in 1912. In 1913 the present entrance requirements went into effect. The same year a Summer School was established at the University by Act of the Legislature and the Farmers'

Institute Work of the University and the Cooperative Demonstration Work for Florida of the U. S. Department of Agriculture were combined. On July 1, 1915, all the agricultural activities of the University were placed under the direction of the Dean of the College of Agriculture.

Immediately after the United States entered the World War the equipment of the University was placed at the disposal of the Government. During the summer of 1918 the College of Engineering was operated as the "University of Florida Army School", for the vocational training of soldiers. At the opening of the session of 1918-1919 all the regular activities of the University were subordinated to the task of training men for the armed forces of the United States. On Dec. 14, 1918, upon the mustering out of the Student Army Training Corps, the University again took up its regular work, altho it made liberal allowance in credits to students for the interruption of their studies caused by military service.

During the summer of 1919 the General Extension Division was established. The University also entered into contract with the United States Government to assist in the work of rehabilitating men disabled while in the armed forces of the country.

LOCATION

On the 6th day of July, 1905, acting under powers conferred by the Buckman Act, the State Board of Education and the Board of Control, in joint session, selected Gainesville as the location for the University. During the scholastic year of 1905-06, it was found necessary to carry on the work of the University at Lake City. Since the summer of 1906 the institution has occupied its present site.

The advantages that Gainesville presents as the seat of the University are numerous. It is centrally located and easy of access. It has well-paved, -lighted, and -shaded streets, an exceptionally pure water supply, and a good sewerage system. The citizens are energetic, progressive, and hospitable. The moral atmosphere is wholesome. The leading religious denominations have attractive places of worship.

INCOME

The annual income of the University, apart from Legislative appropriations, is derived principally from the following

Federal grants: (a) The "East Florida Seminary Fund"—about two thousand dollars ($2,000); (b) the "Agricultural College Fund" bonds—about seventy-seven hundred dollars ($7,700); (c) one-half of the "Morrill Fund"—twelve thousand five hundred dollars ($12,500); (d) one-half of the "Nelson Fund"—twelve thousand five hundred dollars ($12,500). The total income thus derived amounts to thirty-four thousand seven hundred dollars ($34,700).

For the support of the Agricultural Experiment Station the Federal government makes two annual grants: (a) the "Hatch Fund" and (b) the "Adams Fund", each amounting to fifteen thousand dollars ($15,000).

See also Recent Gifts, Fellowships, Scholarships, Loan Funds, and Agricultural Extension Division.

EQUIPMENT

GROUNDS AND BUILDINGS

The University occupies a tract of six hundred and thirteen acres, situated in the western extremity of Gainesville. Ninety acres of this tract are devoted to campus, drill-grounds, and athletic fields; the remainder is used by the College of Agriculture.

The University is one of the few institutions in the United States that made plans before laying the foundation of a single building for all future development of the campus, as far as this could be foreseen. Consequently the campus presents an harmonious appearance. The liberality of the State has permitted the erection of buildings as fast as they were needed. They are lighted with electricity, supplied with city water, and furnished with modern improvements. These buildings are:

The two *Dormitories,* Thomas Hall and Buckman Hall, brick and concrete structures, three stories in height, sixty feet in width and three hundred and two hundred and forty feet, respectively, in length. They are built in fireproof sections, each containing twelve suites of dormitory-rooms and on each floor of each section a shower-bath, lavatory, and toilet.

The *Mechanic Arts Shop,* a one-story brick building, sixty feet long and thirty feet wide, with a wing thirty feet long and twenty feet wide. It is used, at present, as woodshop, blacksmith-shop, and foundry.

Science Hall, a brick and concrete building of two stories and a finished basement, one hundred and thirty-five feet long and sixty-six feet wide. It contains the classrooms and laboratories of the Departments of Chemistry and of Biology and Geology, as well as the University Museum.

The *Agricultural Experiment Station Building,* a brick and concrete structure of three stories and a finished basement, one hundred and twenty-five feet long and sixty feet wide. It contains the offices and laboratories of the Station.

Engineering Hall, a brick and terra-cotta structure, three stories high, one hundred and twenty-two feet long and seventy-three feet wide, with two one-story wings. One wing is used for boilers and machine-shop, the other (one hundred and eighty feet long by forty feet wide) is designed for wood-shop, blacksmith-shop, and foundry. Engineering Hall provides offices, classrooms, laboratories, and drafting-rooms for the Departments of Civil, of Electrical, and of Mechanical Engineering, of Mechanic Arts, and of Physics.

The *Agricultural College Building,* a brick and concrete structure, three stories high, one hundred and fifteen feet long and sixty-five feet wide. It provides for classrooms, laboratories, and offices for the College, and for Extension Work.

The *University Commons,* a brick building of one story and basement, one hundred and fourteen feet long and forty-two feet wide, with a wing forty-nine feet long and twenty-seven feet wide. It provides a large dining-hall and kitchen. A wooden annex, one hundred and twenty feet long by sixty feet wide, is now used as a Y. M. C. A. "Hut".

Language Hall, a brick and stone structure of three stories, one hundred and thirty-five feet long and sixty-six feet wide. It is the home of the College of Arts and Sciences and provides classrooms and offices for the Departments of Languages, History and Economics, Mathematics, and Sociology and Political Science, together with the administrative offices of the University. In the basement are the bookstore and the offices and presses of the *Alligator.*

George Peabody Hall, erected at a cost of forty thousand dollars ($40,000), the gift of the Peabody Board of Trust. It is a brick building, three stories high, one hundred and thirty-five feet long and seventy-two feet wide. It provides for the Departments of Education and Philosophy and for

Teacher-Training Work. The general library of the University is at present in this building.

The *College of Law Building,* a brick and stone structure of two stories, one hundred and twenty feet long and seventy feet wide. It contains an auditorium, model courtroom, lecture-rooms and offices, library, reading and consultation rooms, cataloguing room, and quarters for the Marshall Debating Society.

Auditorium and Gymnasium, a brick and stone structure of two stories (one of which is mezzanine) and basement, one hundred and six feet long and fifty-three feet wide. It is heated by steam, is fully supplied with hot water, and is well lighted and ventilated. The main floor is used as an auditorium and gymnasium. A gallery extending around the whole room provides space for the spectators at gymnastic exhibitions. The basement contains rooms for the director and for University and visiting teams, and for lockers, shower-baths and toilets. Adjacent is a swimming-pool, thirty-six feet long, twenty-four feet wide, and from four and a half to seven feet deep.

WOODEN BUILDINGS.—During the existence of the S. A. T. C., the Vocational Unit erected:

Two *Barracks,* each of two stories, sixty feet long and forty feet wide, and each accommodating sixty-six men. One of these buildings has been equipt as a hospital with accommodations for twenty-five men.

A *Garage,* one hundred and twenty feet long, and well arranged for repair work.

VALUE.—The value of the property used for the work of the University is about $1,000,000.

LIBRARY

The general Library contains about 30,000 volumes. Additional books are purchased as fast as funds are available. An effort is being made to place on the shelves all books extant relating to Florida history.

The books are catalogued and shelved according to the Dewey system, making them readily available for reference. Students are encouraged to use the card catalogs, which are arranged alphabetically, both according to authors and to subjects, and by free access to the stacks to become familiar

with the books themselves. The librarian or an assistant is in attendance to explain the arrangement of books and to aid in reference work. A taste for literature and information is being developed in many students who, before entering the University, have not had access to a good library.

As a designated depository of Federal documents, the Library receives each year several hundred valuable volumes. An attempt is made to keep files of all Florida State publications and of the bulletins and reports of the Agricultural Experiment Stations thruout the Union.

In the reading-room are one hundred and thirty general and technical periodicals. The back numbers of these are bound and kept on file and the early volumes purchased whenever they can be obtained and funds permit. Here also are received the leading newspapers of the State. County papers are added to the list at the request of students.

The technical departments possess special libraries, housed in their respective buildings, but accessible to all members of the University.

MUSEUM

By Act of Legislature of 1916-17 the University was made the home of the Florida State Museum. The Act further provides for a natural history and ethnological survey of the State; for scientific investigations looking towards the further development of its natural resources; for the collecting of material of scientific, economic and civic value, whether pertaining to the mineral, vegetable, and animal kingdoms or to the aboriginal tribes and the early explorations and settlements; for a library; and for traveling exhibits to be kept in circulation among the schools of the State. Adequate funds for carrying out all the provisions of this Act have not as yet been provided; but, largely thru the generosity of some of our citizens, enough specimens and data are already in hand to permit the director to announce the opening of the State Museum.

The Museum contains at the present time more than two hundred and seventy thousand specimens, about one half of which have been carefully catalogued. Among the eight hundred and seventy-six recent accessions are perhaps most worthy of mention an herbarium of four thousand and eight

hundred sheets presented by Dr. Samuel C. Hood, of Orlando; the R. D. Hoyt collection of more than eight hundred birds and four hundred sets of bird eggs; the John J. Ryman collection of more than two hundred birds and eight hundred sets of bird eggs; a complete collection of the mollusca of Alabama, presented by the late Dr. Herbert H. Smith, curator of the Alabama Geological Survey Museum; a large number of bird plumes, presented thru Secretary Gilbert J. Pearson, of New York, by the National Association of Audubon Societies; and the "Loring Memorial Collection", presented by General Loring's heirs, Mrs. William Loring Spencer and Mrs. M. C. Royston, of St. Petersburg. This last collection is of great historical and artistic value, besides being intrinsically worth many thousands of dollars.

Other valuable donations can, it is believed, be announced soon. Even now it is known that much material of historic and artistic interest has been left to the Museum by will and negotiations are under way for securing large exhibits. One good-sized library and a collection weighing more than three tons are already packed for shipment to the University.

In addition to these there are in the Museum a fair collection of the mollusca of Florida, containing more than eighteen thousand specimens; about nine thousand Florida fossils; more than five hundred Florida reptiles; more than ten thousand specimens of stone implements and pottery of the aborigines of Florida; besides thousands of specimens of historic articles, minerals, insects, etc. The library of the Museum numbers about five thousand volumes and pamphlets.

Unfortunately, owing to the lack of rooms and cases, only a small part of this material is now on exhibition and of this part few specimens are arranged to the best advantage. A few rooms are, however, open every day but Sunday, from one to five P. M., and in these rooms are many objects of interest. Director Van Hyning is always pleased to be of service to visitors.

LABORATORIES

For the *Laboratories* and other equipment of the College of Agriculture, see page 74.

The *Botanical Laboratory* contains enough dissecting microscopes and instruments and Bausch and Lomb compound microscopes, magnifying from 80 to 465 diameters, for the

individual use of the students; a Zeiss binocular and a large compound microscope of very high power; two demonstration microscopes; and a McIntosh stereopticon, with projection microscope attachment. For work in histology there are hand microtomes, a sliding microtome, section knives, Miller's paraffin bath, and a supply of reagents, stains, and mounts; for studies in physiology there are germination boxes, nutrient jars, an osmometer, a clinostat, etc. An herbarium has been started, to which students each year add specimens, which they collect, identify, and mount. A case of reference books and periodicals is in the laboratory within easy reach.

The *Chemical Laboratory* is equipt with the apparatus and material necessary for instruction in general inorganic and organic, analytical, and industrial chemistry, as well as for more advanced work. It contains two delicate balances, a latest model polariscope, microscope, spectroscope, ample platinum ware (crucibles, dishes, electrodes, wire, and foil), and special pieces of apparatus for illustrating chemical principles.

The *Dynamo Laboratory*, providing for practical instruction on electrical machinery, occupies a portion of Engineering Hall. The principal machines are a 10-KW Type ACS General Electric synchronous converter, a 25-KW General Electric Type IB direct current generator, a 1-HP Westinghouse Type R motor, a 1-KW synchronous motor, and two 2-KW Westinghouse Type S dynamos, designed to be used either as generators or as motors. The switchboard panel for each machine is placed near it, but is connected to terminals on a main distribution board for the whole laboratory. Power is supplied by a 10-HP single-phase Wagner induction motor, connected with the city alternating current supply and driving the main shaft of the laboratory. The various machines are driven from this shaft, and can be thrown in or out by friction clutches.

The laboratory is also supplied with transformers, several types of arc lamps, and numerous measuring instruments of different ranges, chiefly of Weston make.

The *Geological Laboratory* contains the U. S. Geological Survey Educational Series of rocks. For the study of historical geology there is a collection of fossils illustrating the distribution and development of organisms; for the study of mineralogy there is a blowpipe collection of one hundred selected mineral species, an accessory blowpipe collection of

miscellaneous minerals, a collection of fifty natural crystals, and a reference collection of choice mineral specimens.

The *Physical Laboratory* is well equipt with apparatus and meets the needs of such undergraduate work in physics as is usually carried on in the best American colleges.

The entire third story of Engineering Hall is devoted to the department of physics, as well as a lecture-room on the second story, seating 147, and provided with projection lantern. The quarters on the third story include a main laboratory, 53 by 27 feet; an electrical laboratory, 42 by 26 feet; an optical room, 22 by 15 feet, arranged so as to be effectively darkened; an office and private laboratory, 26 by 19 feet; a workshop and apparatus room, 42 by 19 feet; a classroom, 24 by 22 feet; and a number of storerooms. Water, gas, and several electrical circuits are led to all the rooms.

The *Psychological Laboratory* occupies six rooms on the first floor of Peabody Hall and is well equipt for class demonstrations, and for carrying on experimental and research work. As demand arises new equipment will be added. In addition to the apparatus for the regular experimental work, the laboratory is equipt for carrying on mental and physical tests in connection with the work in educational psychology offered by the Teachers College.

The *Zoological* and *Bacteriological Laboratories* are well equipt for the work of instruction. In addition to the necessary glassware and reagents, there are a number of high-grade microscopes; dissecting microscopes; one Leitz large compound microscope with mechanical stage and a full set of apochromatic objectives; two microtomes, one for celloidin, the other for paraffin sectioning; paraffin bath; sterilizers, both wet and dry; warm and cool incubators; dark-ground illuminator; balances; centrifuge; breeding cages; anatomical preparations and models; a number of the Leukart-Chun zoological wall charts; and one Bausch and Lomb projecting lantern with accessories. The departmental library contains a number of current periodicals, as well as the more important textbooks and reference works.

ENGINEERING

The *Mechanical Engineering Laboratory* has a large and a small vertical steam-engine, a pressure and a fan blower, a

boiler-feed pump, indicators, steam-gauge and thermometer testers. The large water-tube boilers installed for the heating-plant are also available for testing purposes.

The *Testing Laboratory* has a 50,000-pound Riehle machine for testing the tensile, compressive, and transverse strength of materials, and a cement-testing machine with the necessary accessories. These machines are useful for testing materials used in road construction.

The *Computing Room* is furnished with all necessary tables and a library of about two hundred reference books for use in connection with the work of the mechanical laboratories and drafting-room.

The *Drafting-Room* is equipt with substantial oak desks and possesses the necessary minor equipment to accommodate classes of twenty-four students.

Surveying Instruments.—These consist of three surveyor's compasses; three wye and two dummy levels, and one precision level; two plain and four stadia transits, of which three are equipt with attachments for solar and star observations; one complete plane-table; and the necessary rods, chain, tapes, and minor apparatus.

Shops.—The Wood-Shop is provided with lockers, equipt with full sets of tools for bench work: Chisels, saws, squares, gauges, etc. The wood-working machinery consists of a planer, a rip-saw, a band-saw, an iron combination saw table, a jointer, and a grindstone.

The Machine-Shop is equipt with an 18-inch Cady, a 16-inch Reed, a 16-inch Bradford, an 11-inch Star, and a Rivett lathe; a drill press; a Gray planer; a No. 1 Brown and Sharp miller; a Springfield shaper; a No. 2 Marvel hack saw; emery wheels; vises, and tools.

The Forge-Shop is equipt with six power-blast forges, one hand forge, six anvils, and a large supply of tools.

ATHLETIC

The University has provided a hard-surfaced athletic field, including football gridiron, baseball diamond, with grandstand and enclosed field, and ample tennis-court facilities. A basket-ball court and concrete swimming-pool are also located on the campus.

GOVERNMENT

ADMINISTRATION

BOARD OF CONTROL.—The general government of the University is vested by law in a Board of Control consisting of five members from various parts of the State, appointed, each for a term of four years, by the Governor of Florida.

The Board of Control appoints the President and, upon his nomination, elects members of the Faculties, directs the general policies of the University, and supervises the expenditure of its funds. The Board also prescribes the requirements for admission, with the advice of the President and Faculties, and upon their recommendation confers degrees.

PRESIDENT.—The direct administration of all affairs of the University is in the hands of the President.

DEANS.—As executive head each college of the University has a Dean, appointed from the Faculty of that college. These officers are responsible to the President.

UNIVERSITY COUNCIL.—The President and the Vice-President of the University and the Deans of the several colleges form a council of administration, with the following functions: To lay out new lines of work, inaugurate new enterprises in general, and to prepare the annual budget; and to act as the judicial body of the General Faculty on cases of general discipline not under the authority of the colleges, on new courses of study and changes in existing courses, bringing these matters before the Board of Control, and on questions of college action referred to it by any member of the General Faculty.

FACULTIES.—The General Faculty includes all persons, except laboratory and undergraduate assistants, engaged in the work of instruction in the University. Under the leadership of the President, it forms the governing body in all general matters of instruction and discipline.

The Faculty of a college consists of those members of the General Faculty who give instruction in it. Under the leadership of its Dean, it forms the governing body in matters of instruction and discipline in its college.

REGULATIONS

SUPERVISION.—An *Officer in Charge,* occupying quarters in one of the dormitories, has immediate supervision of the general life of the student-body.

OFFENSES AGAINST GOOD CONDUCT.—Any offense against good conduct, in the ordinary meaning of the word, renders a student liable to discipline, whether or not a formal rule against the offense has been published.

The following offenses will be treated with special severity: Disrespect to an officer of the University; wanton destruction of property; gambling; having revolvers in possession on the University grounds.

HAZING.—No student will be assigned to a room in a dormitory until he has been matriculated and has signed the following pledge:

"I hereby promise upon my word of honor, without any mental reservation whatsoever, to refrain from all forms of hazing while I am connected with the University of Florida."

ABSENCES.—A student who accumulates ten unexcused absences from classes, or three unexcused absences from drill, will be given a severe reprimand and parent or guardian will be notified. Two additional unexcused absences will cause the student to be dismissed from the University. Ten unexcused absences from Chapel will subject all students, except Seniors and those in the College of Law, to the same penalty.

ATTENDANCE UPON DUTIES.—A student who, without good cause, persistently absents himself from his University duties, is, after due warning, dishonorably dismissed for the remainder of the academic year. A student who, by reason of ill health or outside demands upon his time, finds it impossible to give regular attention to his University duties, is requested to withdraw; but such request does not in any way reflect upon his good standing.

Delinquencies in University duties are reported to the Registrar, who brings them to the attention of the students concerned and requires a prompt explanation to be made. Careful records of all delinquencies are kept.

STUDIES

ASSIGNMENT TO CLASSES.—Every student must appear before the Dean of his college at the beginning of each academic year for assignment to classes. No instructor has, except as authorized by the Dean of his college, authority to enroll a student in any course.

CHOICE OF STUDIES.—The choice, subject to considerations

of proper preparation, as to which one of the various curricula is to be pursued rests with the individual student; but the group of studies selected must be that belonging to one of the regular years in the chosen curriculum exactly as announced in the catalog, unless special reasons exist for deviating from this arrangement. A student will, however, be held to the requirements of the catalog under which he entered.

CONDITIONS.—A student prepared to take up most of the studies of a certain year in a regular curriculum, but deficient in some, will be permitted to proceed with the work of that year subject to the *condition* that he make up the deficiency. Provision for all of the lower studies must be made before any of the higher may be taken; in the event of conflicts in the schedule or of excessive quantity of work, higher studies must give way to lower.

QUANTITY OF WORK.—A minimum and maximum number of recitation hours (or equivalent time in laboratory courses) per week are prescribed in each college. Not counting Military Science, these numbers are: In the College of Arts and Sciences and in the Teachers College, 15 and 19; in the College of Agriculture, 16 and 23; in the College of Engineering, 16 and 21; and in the College of Law, 15 and 18. Students will not be allowed, except by special permission, to take fewer or more hours than are prescribed. The regulations governing this vary in the different colleges.

Two hours of laboratory work are considered equivalent to one hour of recitation.

CHANGES IN STUDIES.—After a student is registered, he is not permitted to discontinue any class or to begin any additional one, without written permission from the Dean of his college, which must be shown to the instructor involved. If the student has been registered for two weeks, he will not be permitted to make any such change, except during the first two days of the second semester, without the payment of a fee of two dollars ($2.00).

GRADES AND REPORTS.—Each instructor keeps a record of the quality of work done in his classes and monthly assigns each student a grade, on the scale of 100. This grade is reported to the Registrar for permanent record and for entry upon a monthly report to the student's parent or guardian.

If the monthly grades of a student are unsatisfactory, he may be required to drop some of his studies and substitute those of a lower class, or he may be required to withdraw from the University.

EXAMINATIONS.—Examinations on the ground covered are held at the end of each semester.

FAILURE IN STUDIES.—A final grade, based upon the examination and the monthly grades, is assigned for each semester's work. If this grade falls below 75, the student is considered to have failed and may proceed only subject to a condition in the study in which failure has occurred.

RE-EXAMINATIONS.—A student who has failed in the work of a semester is allowed, in case his grade does not fall below 60, to remove the condition by re-examination, on the first Saturday of March or of October. Only one re-examination in any subject is permitted; in case of failure to pass this, with a grade of 85, the student must repeat the semester's work in that subject.

DEGREES.—The special requirements for the various degrees offered by the University will be found under the General Statement of the Graduate School and of each of the five colleges. The following regulations apply to all colleges:

While pursuing studies leading to a degree a student must be registered in the college offering that degree.

Two degrees of the same rank, as, e.g., B.S.C.E. and B.S.E.E., will not be conferred upon the same individual, unless the second degree represents at least fifteen "year" hours of additional work.

SPECIAL STUDENTS.—Students desiring to take special courses will be allowed to take those classes for which they may be prepared. Such students are subject to all the laws and regulations of the University. Special courses do not lead to a degree.

The University permits special courses to be taken solely in order to provide for the occasional exceptional requirements of individual students. Abuse of this privilege, for the sake of avoiding studies that may be distasteful, cannot be tolerated. Accordingly, no minor is permitted to enter as a special student except upon written request of his parent or guardian. Minor special students must, except as provided for in the College of Agriculture, offer fourteen entrance units.

ADULT SPECIALS.—Persons twenty-one or more years of age who cannot satisfy the entrance requirements, but who give evidence of ability to profit by the courses they may take, may, under exceptional circumstances, be admitted as "Adult Specials". Such students appear before the Committee on Admission for enrollment and are not excused from military duty; altho, if more than twenty-three years of age, they may, under certain conditions, secure exemption. (See page 157.)

CLASSIFICATION OF IRREGULAR STUDENTS.—A student is deemed to belong to that class in which the majority of his hours of work lies. But a special student is not considered as belonging to any of the regular classes.

When special students make up their deficiencies they may become regular students and candidates for a degree.

ATHLETIC TEAMS, MUSICAL AND OTHER CLUBS

ABSENCES ON ACCOUNT OF ATHLETICS, ETC.—The members of regular athletic teams, of musical and of other student organizations, together with necessary substitutes and managers, are permitted to be absent from their University duties for such time, not to exceed nine days per semester, as may be necessary to take part in games, concerts, etc., away from Gainesville. All classwork missed on account of such trips must be made up, as promptly as possible, at such hours as may be arranged by the professors concerned.

SCHEDULES.—Schedules of games, concerts, etc., must be arranged so as to interfere as little as possible with University duties. Schedules of games must receive the approval of the Committee on Athletics; schedules of concerts, of dramatic entertainments, etc., the approval of the Committee on Student Organizations.

All regular games will be played under the rules of the Southern Intercollegiate Athletic Association.

ELIGIBILITY TO ATHLETIC TEAMS, MUSICAL CLUBS, ETC.—Any team or club representing the University must be composed exclusively of students in good standing, altho the Committee on Student Organizations has the power to waive this regulation in the case of dramatic and musical organizations. Negligence of duties, or failure in studies, excludes a student from membership in all such organizations.

No minor student is permitted to play on any regular ath-

letic team, if his parent or guardian objects. A list of players and substitutes must be submitted to the Committee on Athletics before each game and must receive its approval.

FINANCES.—The general Faculty has made the following rules:

All student organizations desiring to collect funds for any purpose whatsoever on the campus must, unless such organizations be under other Faculty control, first secure written permission from the Committee on Student Organizations.

No profits are to be taken by the officers of any student organization that makes its appeal for funds on the basis of its being a University enterprise.

At least once a year student organizations engaging in financial operations must have their accounts audited by the Committee on Student Organizations and must publish in the *Alligator* a statement of their receipts and expenditures.

HONORS

PHI KAPPA PHI.—A chapter of the Honor Society of Phi Kappa Phi was established at the University during the spring of 1912. To be eligible for membership a student must have been in attendance at the University for at least one year, have been guilty of no serious breaches of discipline, have had at least three years of collegiate training, be within one year of finishing a course leading to a degree, and stand among the first fourth of the Senior class of the University. The numerical grade which must be attained is based on all college work, wherever done, for which the student receives credit towards a degree.

MEDALS.—Medals are offered (1) to the best declaimer in the Freshman and Sophomore classes and for the best original orations delivered (2) by a member of the Junior, and (3) by a member of the Senior class. The contests are settled in public competition at Commencement. The speakers are limited to four from each class and are selected by the Faculty.

EXPENSES

UNIVERSITY CHARGES.—*Tuition.*—A tuition fee of forty dollars ($40.00) per year is charged every student registered in the College of Law. In the other colleges a student whose legal residence is in Florida is subject to no charge for tuition; a student who is not a legal resident of the State is required to pay a tuition fee of twenty dollars ($20.00) per year.

Registration Fee.—This fee of ten dollars ($10.00) per year is charged all students, except one scholarship student

from each county in Florida and all graduate students pursuing work leading to a degree higher than that of Bachelor. These two classes of students are charged five dollars ($5.00).

The scholarships referred to are to be obtained from County Superintendents of Public Instruction and must be filed with the auditor on the day of registration.

An additional fee of two dollars ($2.00) is required of students who enter after the day scheduled for registration.

Breakage and Laboratory Fee.—In order to secure the University against damage, and to pay for materials used by students in laboratory courses, the sum of five dollars ($5.00) is charged. No part of this fee will be refunded to students taking laboratory courses. Damage done by individuals and not reported usually consumes all the moneys provided by this fee for covering general breakage.

Damage known to have been done by any student will be charged to his individual account.

Infirmary Fee.—A student whose parent or guardian does not reside in Gainesville, is charged an infirmary fee of three dollars ($3.00). This secures for the student, in case of illness, the privilege of a bed in the infirmary and the services of the resident nurse.

Board and Lodging.—Board, lodging, and janitor service will be furnished by the University at a cost of ninety dollars ($90.00) per semester (not including the Christmas vacation). To get advantage of this rate, payment must be made at the beginning of each semester. No refund will be made for less than a month's absence. When not engaged by the semester, board and lodging will be furnished at twenty-four dollars ($24.00) per month.

Under *Board and Lodging* are included meals in the commons and room (with heat, light, janitor service, and access to a bathroom), furnished as stated below. The doors of the rooms are provided with Yale locks. A deposit of 50 cents is required for each key, which will be returned when the key is surrendered. *Janitor service* includes the care of rooms by maids, under the supervision of a competent housekeeper.

Board without Lodging.—Board without lodging will be furnished at the rate of $20.00 per calendar month, payable in advance. No part of this sum will be refunded.

Lodging without Board.—Lodging without board is not furnished.

Furniture.—All rooms are partly furnished and adjoin bathrooms equipt with marble basin and shower with both hot and cold water. The furniture consists of two iron bedsteads and mattresses, chiffonier or bureau, table, washstand, and chairs. The students are required to provide pillows, bedding, half-curtains, and mosquito-bar.

Uniform.—Students in the military department are required to provide themselves with the prescribed uniform, which is furnished under contract. This uniform may be worn at all times. The total cost complete is at present $26.00.

Books.—The cost of books depends largely upon the course taken, but is, in no case, a large item of expense, tho in the higher classes the student is encouraged to acquire a few works of permanent value.

Summary.—The following table summarizes the minimum expenses of a Florida student registered in any college save in that of Law:

Tuition	$000.00
Registration Fee	10.00
Breakage and Laboratory Fee	5.00
Infirmary Fee	3.00
Board and Lodging	180.00
Uniform	26.00
Books (about)	10.00
Incidentals (laundry, athletic, literary society, etc., dues), about	20.00
	$254.00

Students exempt from buying uniforms will deduct $26.00 from the above table; those from other states will add a tuition fee of $20.00; those enrolled in the R. O. T. C. will see also page 157.

REMITTANCES.—*All remittances should be made to the Auditor, University of Florida, Gainesville, Fla.*

OPPORTUNITIES FOR EARNING EXPENSES.—It is often possible for a student to earn a part of his expenses by working during hours not required for his University duties.

A few students are employed as waiters, as janitors, and in other capacities. Such employment is not, as a rule, given to a student otherwise financially able to attend the University, nor is it given to one who fails in any study. Application for

employment should be made to Professor W. L. Floyd, Chairman of the Self-Help Committee.

Altho the employment of students is designed to assist those in need of funds, the payment for their services is in no sense a charity. The rate of remuneration is no higher and the standard of service demanded is no lower than would be the case if the work were done by others than students. If a student employee fails to give satisfaction, he is discharged. Otherwise, provided it is not found to interfere with reasonable success in his studies and provided he does not commit any breach of good conduct, he is continued in his position as long as he cares to hold it.

Great credit is due those willing to make the necessary sacrifices, nevertheless students are advised not to undertake to earn money while pursuing their studies, unless such action is unavoidable. Proper attention to studies makes sufficient demand upon the time and energy of a student, without the burden of outside duties; such time as the studies leave free can be spent more profitably in recreation.

FELLOWSHIPS, SCHOLARSHIPS, AND LOAN FUNDS

FELLOWSHIPS.—In order to encourage young teachers to prepare themselves further for their work, three Teaching Fellowships, each paying $200.00 annually, have been established.

Application for a fellowship must be made in writing to the Dean of the Teachers College or to the President of the University. It must show that the applicant is a college graduate and has ability to profit by the work offered, and must be accompanied by testimonials as to his character.

A Fellow must devote himself to studies leading to the Master's degree in Education. He will be expected to teach four or five hours per week in the Practice High School, under the direction and supervision of the Teachers College, for which he will receive two hours' credit. He may be called upon for minor services, such as conducting examinations, but not for anything that would interfere with his graduate work.

SCHOLARSHIPS.—Thru the generosity of friends, the University is able to offer three scholarships. (See also College of Agriculture.) Application for a scholarship should be made to the President of the University and should be accompanied

by a record of the student's work, statement of his need, and testimonials as to his character. To secure a scholarship:

(a) The student must actually need this financial help to enable him to attend the University.

(b) He must be of good character and habits and sufficiently far advanced to enter not lower than the Freshman class.

1. *United Daughters of the Confederacy Scholarship.*—Established and maintained by the U. D. C. of the State at large. For the grandson of a Confederate soldier. Value $155.00.

2. *Knight and Wall Scholarship.**—Established and maintained by the Knight and Wall Company, hardware dealers, of Tampa. Value, $200.00.

3. *Arthur Ellis Ham Memorial Scholarship.*—See page 13.

LOAN FUNDS.—The generosity of friends enables the University to lend a few needy students money with which to help defray their expenses. A joint note is to be made by a recipient of a loan and one responsible property holder owning property to a value of not less than $1,000 over and above the exemption privilege. Interest on such loans is at the rate of 7% and is payable yearly, but does not begin until the first of July after graduation, or until one month after a non-graduating recipient has severed his connection with the University. The principal is to be repaid in annual instalments of $100 each, due at the time of interest payments.

William Wilson Finley Foundation.—See under College of Agriculture.

Alumni Association Foundation.—No loan to exceed $150 per year. Application should be made to the Secretary of the Alumni Association, Gainesville.

Kirby Smith Chapter, U. D. C., Foundation.—Loans to lineal descendants of Confederate soldiers are made in amounts not exceeding $100 per year. Applications should be addressed to the Secretary of that chapter, Gainesville.

ALUMNI ASSOCIATION

At the close of their Commencement exercises the class of 1906 organized an Alumni Association. All graduates of the University *and the graduates of the former institutions who*

*For particulars, address the Superintendent of Public Instruction, Hillsboro County, Tampa, Fla.

have had their diplomas confirmed by the University are eligible for membership.

Further information concerning the Association may be obtained from any one of the officers: President, Ralph Stoutamire, of Abbeville; Vice-President, Paul D. Camp, of White Springs; Secretary and Treasurer, F. M. O'Byrne, of Gainesville.

STUDENT ORGANIZATIONS AND PUBLICATIONS

ORGANIZATIONS.—Practically every interest of the student-body has a student-controlled organization, but with faculty supervision, for its support. Some of these organizations are mainly religious in character, some social, others purely literary or scientific, still others combine social with other features. Hence there are athletic clubs, in addition to the general Athletic Association of the University; associations of men who have distinguished themselves or who are greatly interested in some activity or study, as e. g. a Military Club, a Monogram Club, a Chemical Club, honor societies in Agriculture, in Law, etc.; and a Rehabilitation Club. Among those worthy of special mention are the following:

Y. M. C. A.—The Y. M. C. A., under the leadership of the General Secretary, seeks to promote the ideal of the University, that every man should have a strong body, a trained mind, and a Christian experience in order that he may go forth prepared to meet the problems of life.

Clean, wholesome athletics is fostered, efficiency in the classroom urged, and systematic Bible study promoted. The best available ministers and laymen are brought before the students to the end that the latter may become acquainted with the problems of today.

The Y. M. C. A., in carrying forward this work, deserves the support of every student, alumnus, and parent.

Honor Committee.—In order to carry out the spirit of the "Honor System", which has been in operation at the University for years, each class elects one of its members to represent it on the Student Honor Committee. This committee strives in every way possible to promote among the students honesty in all their work and conducts a fair trial in the rare cases of breaches of the system. Its verdict is final, but is kept secret from all save those concerned.

Literary and Scientific Societies.—See General Statement of each of the five colleges of the University.

Debating Council.—The Debating Council, composed of one representative from each of the Literary Societies, has general charge both of intersociety and of intercollegiate debates. Under its direction a debating contest is held annually between members of each of the five colleges of the University. The winning team gains possession of the Farr Loving Cup for the ensuing year; three successive victories entitle the society furnishing the debaters to permanent ownership.

Teams representing the University debate annually against teams from the University of South Carolina and the University of Tennessee. In 1920 and 1921 debates will also be held with the Louisiana State University.

Cosmopolitan Club.—The students of foreign nationality, together with a few Americans, organized in 1918 a club for the purpose of promoting international understanding and friendship. Under its auspices addresses are frequently made, describing customs and institutions of foreign countries. The membership consists at the present time of men from Brazil, Italy, the Philippines, Russia, Serbia, and the United States. The president is Senhor J. Sampaio, of Brazil.

Orchestra.—The orchestra plays for Chapel exercises and furnishes special music on Fridays. It also accompanies the University Minstrels on its annual tour.

Glee and Mandolin and Guitar Clubs.—The Glee Club develops ability in part-singing and gives much pleasure by adding variety to the Friday morning exercises. The Mandolin and Guitar Club, while complete in itself, joins the Glee Club in its annual tour.

Military Band.—The Military Band adds much to the effectiveness of parades. It makes several excursions during the year to neighboring towns, and has an annual trip of nearly a week with the University Minstrels.

PUBLICATIONS.—Beginning with the session of 1909-10 each Junior (or Senior) class has published an illustrated annual, known as the *"Seminole"*.

The *"Florida Alligator"* is a weekly newspaper owned and controlled by the student-body. Its editorial articles discuss University problems from the viewpoint of the undergradu-

ates. It seeks the support of the alumni, who find in it the best means of keeping in touch with the University.

ADMISSION

TERMS.—A candidate for admission must present, along with his scholastic record, a certificate of good moral character. If he be from another college or university, this certificate must show that he was honorably discharged.

No candidate of less than 16 (18 in the College of Law) years of age will be admitted.

METHODS.—There are two methods of gaining admission:

(1) *By Certificate.*—The University will accept certificates from the approved Senior high schools and from accredited academies and preparatory schools of Florida, and from any secondary school elsewhere which is accredited by its state university.

The certificate must be officially signed by the principal of the school attended. It must state in detail the work of preparation and, in the case of Florida high schools, that the course *thru the twelfth grade* has been satisfactorily completed.

Blank certificates, conveniently arranged for the desired data, will be sent to all high-school principals and, upon application, to prospective students.

(2) *By Examination.*—Candidates not admitted by certificate will be required to stand written examinations upon the entrance subjects. For dates of these examinations, see University Calendar, page 3.

REQUIREMENTS. — *"Entrance Units."* — The requirements for admission are measured in "Entrance Units", based upon the curriculum of the high schools of Florida. A unit represents a course of study pursued thruout the school year with five recitation periods (two laboratory periods being counted as one recitation period) of at least forty-five minutes each per week, four courses being taken during each of the four years. Thus the curriculum of the standard Senior high school of Florida is equivalent to sixteen units.

Number of Units.—Admission to the Freshman class will be granted to candidates who present evidence of having completed courses amounting to sixteen such units.

These requirements are equal to fifteen "Carnegie Foundation" or "National Educational Association" units.

In no case will credit for more than sixteen units be given for work done at a high school.

Distribution of Units.—Eight specified units are required in common by all the colleges of the University; other specified units are given below; the remaining units are elective.

UNIVERSITY

English	3 units
Mathematics	3 units
History	1 unit
Science	1 unit

COLLEGE OF ARTS AND SCIENCES
COLLEGE OF AGRICULTURE*
TEACHERS COLLEGE

A. B. Curriculum

Latin	2 units

B. S. Curriculum

One Foreign Language or History and Science	2 units

COLLEGE OF ENGINEERING

Mathematics	1 unit
Physics	1 unit

Elective Units.—These are to be chosen from the list given below and from other subjects regularly taught in a standard high school. Not more than four units will be accepted in vocational subjects—agriculture, mechanic arts, stenography, typewriting, etc.

ELECTIVE SUBJECTS

Botany	½ or 1 unit
Chemistry	1 unit
**Engineering Practice	4 units
English	1 unit
History	2 units
Latin	4 units
Mathematics	1 unit
Modern Languages—French or Spanish	2 units
Physical Geography	1 unit
Physics	1 unit
Zoology	½ or 1 unit

*A.B. Curriculum not offered in College of Agriculture.
**Only for admission to the College of Engineering.

Deficiencies.—A deficiency of two units will be allowed, but must be removed by the end of the first year after admission.

Students who have registered for a University study will not be allowed to make up an entrance condition by examination in this subject, unless the examination be taken on the first Saturday in October of the same school year. The University credit may, however, be used as a substitute for entrance credit, a three-hour course continued thruout the year counting as one unit.

INTELLIGENCE TEST.—All incoming Freshmen are required to take an Intelligence Text during the early part of the first semester. Dr. Cox, of the Department of Psychology, has charge of this work and is securing valuable data by correlating the standing of the students in various lines of work with their standing on the Intelligence Test.

DESCRIPTION OF UNIT COURSES

ENGLISH.—Four units.—The required work in English is designed to cover three years. The exercises in Composition and the use of the Classics should be continued thruout this time. No candidate will be accepted whose work is notably defective in spelling, punctuation, division into paragraphs, or idiom.

(1) *Grammar.*—English Grammar, both in its technical aspects and in its bearings upon speech and writing.

(2) *Composition and Rhetoric.*—The fundamental principles of Rhetoric as given in any standard high-school text; practice in Composition, oral and written, during the whole period of preparation.

(3) *Classics.*—The English Classics generally adopted by schools and colleges. The work includes:

I. *Study and Practice.*—This presupposes thoro study of the works selected. The examination will be upon subject-matter, form, and structure. The candidate may be required to answer questions involving the leading facts in the periods of English history to which the prescribed texts belong.

TEXTS:—One book from each of the following groups:

A. Shakespeare.—Julius Caesar. Macbeth. Hamlet.

B. Milton: L'Allegro, Il Penseroso, and either Comus or Lycidas. Tennyson: The Coming of Arthur, The Passing of Arthur, and The Holy Grail. Selections from Wordsworth, Keats, and Shelley, in Book IV of Palgrave's Golden Treasury (First Series).

C. Burke: Speech on Conciliation with the Colonies. Macaulay:

Speech on Copyright; and Lincoln: Cooper Union Address. Washington: Farewell Address; and Webster: Bunker Hill Oration.

D. Carlyle: Essay on Burns; and Selections from Burns' Poems. Macaulay: Life of Johnson. Emerson: Essay on Manners.

II. *Reading.*—A number of books will be assigned for reading. The candidate will be required to write a paragraph or two on each of several topics to be chosen from a considerable number set before him in the examination paper. This is designed to test his power of clear and accurate expression and will call for only a general knowledge of the substance of the books. He must also be prepared to answer simple questions on the lives of the authors.

TEXTS:—At least two books from each of the following groups, except as otherwise provided under Group A:

A. The Old Testament (comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther). The Odyssey (with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII). The Iliad (with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI). The Aeneid.

For any selection from Group A one from any other group may be substituted. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary merit.

B. Shakespeare.—A Midsummer Night's Dream. The Merchant of Venice. As You Like It. Twelfth Night. The Tempest. Romeo and Juliet. King John. Richard the Second. Richard the Third. Henry the Fifth. Coriolanus. *Julius Caesar. *Macbeth. *Hamlet.

C. Malory: Morte d'Arthur (about 100 pages). Bunyan: Pilgrim's Progress, Part I. Swift: Gulliver's Voyages to Lilliput and to Brobdingnag. Defoe: Robinson Crusoe, Part I. Goldsmith: Vicar of Wakefield. Scott: Any novel. Jane Austen: Any novel. Maria Edgeworth: Castle Rackrent, or The Absentee. Francis Burney (Madame d'Arblay): Evelina. Dickens: Any novel. Thackeray: Any novel. George Eliot: Any novel. Mrs. Gaskell: Cranford. Kingsley: Westward Ho! or Hereward the Wake. Reade: The Cloister and the Hearth. Blackmore: Lorna Doone. Hughes: Tom Brown's School Days. Stevenson: Any novel out of copyright. Cooper: Any novel. Poe: Selected Tales. Hawthorne: Any novel out of copyright.

D. Addison and Steele: The Sir Roger de Coverly Papers; or Selections from The Tatler and The Spectator. Boswell: Selections from the Life of Johnson (about 200 pages). Franklin: Autobiography. Irving: Selections from The Sketch Book (about 200 pages); or the Life of Goldsmith. Southey: Life of Nelson. Lamb: Selections from the Essays of Elia (about 100 pages). Lockhart: Selections from the Life of Scott (about 200 pages). Thackeray: Lectures on Swift, Addison, and Steele in The English Humorists. Macaulay: One of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay. Trevelyan: Selections from Life of Macaulay (about 200 pages). Ruskin: Sesame and Lilies; or Selections (about 150 pages). Dana: Two Years Before the Mast. Lincoln: Selections. Parkman: The Oregon Trail. Thoreau: Walden. Lowell: Selected Essays (about 150 pages). Holmes: The Autocrat of the Breakfast Table. Stevenson: Inland Voyage, and Travels with a Donkey. Huxley:

*If not chosen for study.

Autobiography and Selections from Lay Sermons (including the addresses on Improving Natural Knowledge, A Liberal Education, and a Piece of Chalk).

E. Palgrave: Golden Treasury (First Series), Books II and III, with special attention to Dryden, Gray, Cowper, Burns, and Collins; Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study). Goldsmith: The Traveller, and The Deserted Village. Pope: The Rape of the Lock. A Collection of English and Scottish Ballads (as, for example, Robin Hood Ballads, The Battle of Otterburne, King Estmere, Young Beichan, Bewich and Grahame, Sir Patrick Spens, and a selection from later ballads). Coleridge: The Ancient Mariner, Christabel, and Kubla Khan. Byron: Childe Harold, Canto III or IV; and The Prisoner of Chillon. Scott: The Lady of the Lake or Marmion. Macaulay: The Lays of Ancient Rome; The Battle of Naseby; The Armada; Ivry. Tennyson: The Princess; or Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur. Browning: Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa —Down in the City, The Italian in England, The Patriot, "De Gustibus", The Pied Piper, Instans Tyrannus. Arnold: Sohrab and Rustum, and The Forsaken Merman. Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

(4) *History of American Literature; History of English Literature.*—One unit, elective.—The fourth year of the high-school course in English usually covers these subjects.

MATHEMATICS.—Four units.—

(1) *Algebra.* — First Year. — One unit. — Elementary operations: factoring, highest common factor, least common multiple, fractions, simple equations, inequalities, involution, evolution, and numerical quadratics. This is supposed to represent the work of one year in the high school.

(2) *Algebra.* — Second Year. — One unit.* — Quadratic equations, ratio and proportion, the progressions, imaginary quantities, the binominal theorem, logarithms, and graphic algebra. This is supposed to represent the work of the second year in algebra in the high school.

(3) *Plane Geometry.*—One unit.

(4) *Solid Geometry.*—One-half unit.

(5) *Plane Trigonometry.*—One-half unit.

HISTORY.—Four units.

(1)	Ancient History, with particular reference to Greece and Rome	1 unit
(2)	European History since Charlemagne	1 unit
(3)	English History	1 unit
(4)	American History	1 unit

A year's work based on a textbook of at least 300 pages is required for each unit. The student should know something

*This represents only one half-unit on the Carnegie-unit scale.

of the author of the textbook used and give evidence of having consulted some works of reference.

LATIN.—Four units.—At least four years' work is required to cover the four units. The minimum for each year is as follows:

(1) *First Year.*—One unit.—A first year Latin book, such as Collar & Daniell's First Year Latin or Potter's Elementary Latin Course.

(2) *Second Year.*—One unit.—Four books of Caesar's Gallic War; grammar and prose composition thruout the year.

(3) *Third Year.*—One unit.—Six of Cicero's Orations; grammar and prose composition thruout the year.

(4) *Fourth Year.*—One unit.—The first six books of the Aeneid and as much prosody as relates to accent, versification in general, and to dactylic hexameter.

MODERN LANGUAGES.—Two units.—If the student offers only one unit he must study the language a second year in the University.

FRENCH

First Year.—One unit.—(1) Pronunciation; (2) grammar; (3) easy exercises; (4) from 100 to 175 duodecimo pages of graduated texts, with practice in translating into French easy variations of sentences read (the teacher giving the English); (5) dictation; (6) memorizing of short selections.

Second Year.—One unit.—(1) From 250 to 400 pages of easy prose; (2) translation into French of variations upon the texts read; (3) abstracts, sometimes oral and sometimes written, of portions of text already read; (4) dictation; (5) grammar with application in the construction of sentences; (6) memorizing of short poems.

SPANISH

Requirements similar to those for French.

PHYSICAL GEOGRAPHY.—One unit.—Study of a modern textbook, together with laboratory and field course, covering the following subjects: (1) The earth as a globe: shape, how proved; size, how measured; motions, how determined; map making; modes of projection. (2) The ocean: forms and divisions; depth, density, temperature; movements, waves and currents; character of floor; life; tides, character and causes; shore lines. (3) The atmosphere: chemical composition and pressure, how determined; circulation, character and cause;

storms, classification and cause. (4) Land: amount and distribution; topographic charts; plains and plateaus, kinds and development; volcanos, distribution and character; rivers, life-history; glaciers, kinds and characteristics.

BOTANY.—One-half or one unit.—Anatomy and morphology; physiology; ecology; natural history and classification of the plant groups. At least twice as much time should be given by the student to laboratory work as to recitation.

ZOOLOGY.—One-half or one unit.—Study of a standard high-school text and dissection of at least ten specimens. Note-books with drawings, showing the character of the work completed, must be presented on entrance to the University.

PHYSICS.—One unit.—Study of a standard high-school text; lecture-table demonstrations; individual laboratory work, comprising at least thirty exercises from a recognized manual.

CHEMISTRY. — One unit. — Individual laboratory work, comprising at least thirty exercises from a recognized manual; lecture-table demonstrations; study of a standard textbook.

ENGINEERING PRACTICE.—Practical experience in engineering work, or in occupations related to engineering, may be recognized for entrance credit, at the discretion of the Faculty of the College of Engineering. Only regular commercial work for pay will be recognized, and a written statement from the employer must be submitted, giving the nature and quality of the work done and the dates of beginning and of ending. When accepted for entrance credit twelve months of work will be required for each unit.

The purpose of recognizing engineering practice for entrance credit is for the benefit of those interested in engineering who have been obliged to leave school in order to earn their living; accordingly credit will be given only to such persons.

ADVANCED STANDING

Advanced standing will be granted only upon recommendation of the heads of the departments concerned. Fitness for advanced work may be determined by examination or by trial. Students from other institutions of like standing will ordinarily be classified according to the ground already covered.

ORGANIZATION

I. The Graduate School.

II. The College of Arts and Sciences:

(a) A Curriculum leading to the A. B. degree.
(b) A Curriculum leading to the B. S. degree.
(c) A Pre-Medical Course.

III. The College of Agriculture:

Instructional Division:
(a) A Curriculum leading to the B. S. degree in Agriculture.
(b) A Curriculum leading to the title Graduate in Farming.
(c) A Two-Year Course.
(d) A One-Year Course.
(e) A Four-Months' Course.
Experiment Station Division.
Extension Division.

IV. The College of Engineering:

(a) A Curriculum leading to the B. S. degree in Civil Engineering.
(b) A Curriculum leading to the B. S. degree in Electrical Engineering.
(c) A Curriculum leading to the B. S. degree in Mechanical Engineering.
(d) A Curriculum leading to the B. S. degree in Chemical Engineering.

V. The College of Law:

A Curriculum leading to the LL.B. or J. D. degree.

VI. The Teachers College and Normal School:

(a) A Curriculum leading to the A. B. degree in Education.
(b) A Curriculum leading to the B. S. degree in Education.
(c) A Normal Course leading to a Diploma.
(d) Correspondence School.
(e) The University Summer School.

General (Connected with at least four Colleges):
Division of Military Instruction.
Division of Rehabilitation.

VII. Extension Service.

GRADUATE SCHOOL

ORGANIZATION.—This School is under the direction of the Committee on Graduate Studies, which consists of Professors Anderson, Farr, Rolfs, Benton, Trusler, and Cox.

Graduate students should register with the Chairman of this Committee.

DEGREES OFFERED.—Courses are offered leading to the degrees of Master of Arts, Master of Arts in Education, Master of Science, Master of Science in Agriculture, and Master of Science in Education.

PREREQUISITE DEGREE.—Candidates for the Master's degree must possess the Bachelor's degree of this institution or of one of like standing.

APPLICATIONS.—Candidates for the Master's degree must present to the Chairman of the Committee on Graduate Studies a written application for the degree not later than the first of November of the scholastic year in which the degree is desired. This application must name the major and minor subjects offered for the degree and must contain the signed approval of the heads of the departments concerned.

When a candidate offers as a part of his work any course not sufficiently described in the catalog, he must include in his application an outline or description of that course.

TIME REQUIRED.—The student must spend at least one entire academic year in residence at the University as a graduate student, devoting his full time to the pursuit of his studies.

WORK REQUIRED.—The work is twelve hours per week. Six hours of this work must be in one subject (the major) and of a higher grade than any course offered for undergraduate students in that subject. The other six hours (the minor or minors) are to be determined and distributed by the professor in charge of the department in which the major subject is selected. No course designed primarily for students of a lower grade than the Junior class will be acceptable as a minor. While the major course is six hours, these hours are not the same as in undergraduate work, for in general the major work will require at least two-thirds of the student's time.

To obtain credit for a minor the student must attain a grade of not less than eighty-five per cent.

DISSERTATION.—It is customary to require a dissertation showing original research and independent thinking on some subject accepted by the professor under whom the major work is taken, but this requirement may be waived at the option of the professor, subject to the approval of the Committee on Graduate Studies. If the requirement be not waived, the dissertation must be in the hands of the committee not later than two weeks before Commencement Day.

SUMMER SCHOOL.—Four complete summer terms devoted entirely to graduate work will satisfy the time requirement.

The application must be presented by the middle of the first term.

COLLEGE OF ARTS AND SCIENCES

JAS. N. ANDERSON, *Dean*

FACULTY.—Jas. N. Anderson, E. C. Beck, J. R. Benton, A. P. Black, L. W. Buchholz, *W. S. Cawthon, M. D. Cody, H. W. Cox, C. L. Crow, H. S. Davis, J. M. Farr, W. S. Higgins, J. M. Leake, J. L. McGhee, W. S. Perry, T. M. Simpson, N. L. Sims.

GENERAL STATEMENT

AIM AND SCOPE.—The tendency of universities at the present time seems to be to reach out their arms farther and farther into the domain of knowledge and to become more and more places where the student may expect to be able to acquire any form of useful knowledge in which he may be interested. In the center, however, there is still found the College of Arts and Sciences, the pulsating heart, as it were, sending its vivifying streams to the outermost tips of the institution.

The aim of the college is to prepare for life, it is true, but not so directly and immediately as do the professional schools. It is a longer, but a better road, for those who are able to travel it, to distinction and ultimate success in almost any calling. Especially in the case of the learned professions, it is becoming clearer that a man must first get a liberal education, if possible, before entering upon his professional studies.

The purpose and aim of the College of Arts and Sciences is to impart culture and refinement, to train the mind and strengthen the intellect, to build up ideals and establish the character, to enlarge the vision, to ennoble the thoughts, to increase the appreciation of the beautiful and the true, to add charm to life and piquancy to companionship, to make the man a decent fellow, a useful citizen, an influential member of society in whatever community he may be thrown, in whatever field his life-course may be run.

But if the student wishes to examine the practical side exclusively, he will find that there is also something practical in all these courses. For instance, they are all valuable for him who wishes to learn to teach those subjects. Moreover, the use of electives gives the student an opportunity to specialize in some branch according to his inclination and in furtherance of his plans.

*Until Dec. 1, 1919.

ADMISSION.—For full description of requirements for admission and of unit courses, see page 39 to 45, inclusive.

LITERARY SOCIETIES.—The Literary Societies are valuable adjuncts to the educational work of the College. They are conducted entirely by the students and maintain a high level of endeavor. The members obtain much practical experience in the conduct of public assemblies. They assimilate knowledge of parliamentary law, acquire ease and grace of delivery, learn to argue with coolness of thought and courtesy of manner, and are trained in thinking and in presenting their thoughts clearly and effectively while facing an audience. All students are earnestly advised to connect themselves with one of these societies and to take a constant and active part in its work.

DEGREES.—The College of Arts and Sciences offers courses leading to the degrees of Bachelor of Arts (A.B.) and Bachelor of Science (B.S.).

SUBJECTS OF STUDY.—The subjects of study leading towards the degrees offered by the College of Arts and Sciences are divided into the following four groups:

I.	II.	III.	IV.
Military Science I and II.	French, Greek, Latin, Rhetoric and English Language, Spanish.	Bible, Economics, Education, English Literature, History, Philosophy, Political Science, Psychology, Sociology.	Agriculture, Astronomy, Bacteriology, Biology, Botany, Chemistry, Drawing, Descriptive Geometry, Geology, Mathematics, Mechanics, Military Science III and IV, Physics, Physiology, Surveying, Zoology.

REQUIREMENTS FOR DEGREES.—For each of the degrees offored, A.B. and B.S., a total of sixty-four hours must be taken, including Military Science I and II, English II and Philosophy I. Of these sixty-four hours at least the last fifteen must be taken in residence at this University.

For the A.B. degree fifteen hours must be taken in each of Groups II and III and twelve hours from Group IV; three hours may be chosen from any group; the remaining seventeen hours (including the "major") must be chosen from Groups II, III, and (pure) Mathematics.

For the degree of B.S. twelve hours must be taken from each of Groups II and III, twenty-four (including the "major" and, in every case, Chemistry I) from Group IV, leaving fourteen hours to be chosen from the subjects mentioned above.

The "major" must consist of nine hours in one department (not counting the Freshman work) and must be approved by the head of the department chosen. The choice of electives must meet with the approval of the Dean.

COMBINED ACADEMIC AND LAW COURSE.—Twelve of the seventeen unspecified hours for the A.B. degree or of the fourteen for the B.S. degree may be taken from the first year of the curriculum of the College of Law.

The Bachelor's degree in Arts or Sciences will not be conferred, however, upon a candidate offering twelve hours in Law until he has satisfactorily completed the second year of the course in the College of Law.

MINIMUM AND MAXIMUM HOURS.—The student must take at least fifteen hours' work and in general will not be permitted to take more than nineteen; but if in the preceding semester he has attained an average of eighty-seven or more and has not failed in any subject he may be permitted to take as many as twenty-one hours, and if he has attained an average of ninety with no failures he may be permitted to take as many as twenty-three hours.

PRE-MEDICAL COURSE.—Students intending to study medicine are advised to take the regular B.S. course. Inasmuch, however, as many students are unable to spend four years on a non-professional course, the University offers a Two-Year Pre-Medical Course.

CURRICULUM

Leading to the Degree of Bachelor of Arts

Freshman Year

NAMES OF COURSES	NATURE OF WORK	HOURS PER WEEK
English I	Rhetoric	3
Foreign Language	French, Greek, Latin, or Spanish	3
History I	Modern European History	3
Mathematics I	Plane Analytic Geometry, College Algebra	3
Military Science I	Regulations	1
*Physics V	General Physics	4
		17

*Greek may be substituted, in which case Physics must be taken in the Sophomore year.

Sophomore Year

English II	3
Philosophy I	3
Group II	3
Group II or III	3
Group IV	3
Military Science II	1
	16

CURRICULUM

Leading to the Degree of Bachelor of Science

Freshman Year

Names of Courses	Nature of Work	Hours per Week
Chemistry I	General Chemistry	5
English I	Rhetoric	3
Foreign Language	French, Greek, Latin, or Spanish	3
Mathematics I	Plane Analytic Geometry, College Algebra	3
Military Science I	Regulations	1
Physics V	General Physics	4
		19

Sophomore Year

English II	3
Philosophy I	3
Group II	3
Group IV	6
Military Science II	1
	16

In the Junior and Senior years candidates for either of the degrees offered must choose their studies so as to conform to the general "Requirements for Degrees" of this College.

CURRICULUM

TWO-YEAR PRE-MEDICAL COURSE

First Year

Names of Courses	Nature of Work	Hours per Week
Biology I*a* and III*b*	General Course	4
Chemistry I	General Chemistry	5
English I	Rhetoric	3
French A	Elementary Course	3
Physics V	General Physics	4
		19

Second Year

Biology V	Vertebrate Anatomy	3
Biology XI*a*	General Bacteriology	1½
Chemistry III	Qualitative Analysis	2½
Chemistry V	Organic Chemistry	4
French I	Intermediate Course	3
Elective from Group III		3
		18

DEPARTMENTS OF INSTRUCTION

ANCIENT LANGUAGES

Professor Anderson

The study of the classics contributes largely to general culture. In addition to the recognized and peculiar disciplinary value of such studies and their conspicuous service in cultivating the literary sense and developing literary taste, they have a more immediate value and office as aids to the comprehension and interpretation of modern languages and literatures. A thoro study and a full understanding of the modern languages, especially the Romance languages and our own tongue, demand a considerable preliminary acquaintance with Latin and Greek. Thus from two points of view, that of their own intrinsic beauty and value as culture studies and that of aids to the study of other languages, Latin and Greek command our attention and call for a large place in any curriculum which proposes to issue in a liberal education.

Courses A, B, and C, if not used for entrance units, may be taken for college credit.

LATIN

LATIN A.—First Year Latin, based on a book for beginners. *(3 hours.)*

LATIN B.—Second Year Latin, based on Caesar, with grammar and prose composition. *(3 hours.)*

LATIN C.—Third Year Latin, based on Cicero and Virgil, with grammar and prose composition. *(3 hours.)*

LATIN I.—Ovid, about 2,000 verses selected from his various works, but mainly from the Metamorphoses; Versification, with especial reference to the Dactylic Hexameter and Pentameter; Cicero's De Senectute and De Amicitia. A rapid review of forms and the principal rules of Syntax; a short weekly exercise in prose composition. *(3 hours.)*

LATIN II.—Selections from the Roman Historians, especially Livy and Sallust, and from the Satires, Epistles, Odes, and Epodes of Horace, with a study of the Horatian Metres. *(3 hours.)*

LATIN III.—Juvenal's Satires, with some omissions; Taci-

tus, parts of the Histories or Annals; selections from Catullus, Tibullus, Propertius, and Ovid. *(3 hours.)*

LATIN IV.—Several plays of Plautus and Terence; Tacitus, Germania and Agricola; selections from Seneca, Gellius, and Quintilian. *(3 hours.)*

LATIN V*b*.—History of Roman Literature, preceded by a short study of Roman Life and Customs. *(Second semester; 3 hours.)*

LATIN VI.—Grammar and Prose Composition: an intermediate course in Prose Composition adapted to the needs of students taking Latin I or II and consisting of weekly written exercises and some oral work; in connection with this there will be a general review of Latin Grammar with some more advanced work, both in forms and syntax. *(2 hours.)*

LATIN VII.—Advanced Prose Composition: a continuation of Latin VI, open only to those students who have completed Latin VI or equivalent. *(2 hours.)*

GREEK

GREEK A.—The forms and most important principles of the syntax; numerous exercises, partly oral, partly written, and some practice in conversation and sight reading. One book of Xenophon's Anabasis, with exercises in Prose Composition and study of the Grammar. *(3 hours.)*

GREEK I.—Xenophon's Anabasis, Books II, III and IV, selections from Lucian and the easier dialogues of Plato; sight translation; Prose Composition; Grammar. *(3 hours.)*

GREEK II.—Select orations of Lysias or other Attic orators, with informal talks on Athenian Laws and Customs; parts of the Iliad and Odyssey of Homer; Prosody. *(3 hours.)*

GREEK III.—Selections from the Greek historians, especially Herodotus and Thucydides; from the Greek dramatists, especially Euripides and Sophocles; from the lyric fragments of Alcaeus, Sappho, etc. *(3 hours.)*

GREEK IV.—History of Greek Literature, preceded by a short study of Greek Life and Customs. A knowledge of the Greek language is highly desirable, but is not required for this course. *(First semester; 3 hours.)*

GREEK V.—Grammar and Prose Composition: an intermediate course in Prose Composition adapted to the needs of students taking Greek III or IV and consisting of weekly written exercises and some oral work; in connection with this

there will be a general review of Greek Grammar with some more advanced work, both in forms and syntax. *(2 hours.)*

GREEK VI.—Selections from the Septuagint and from the New Testament; class and parallel translations; vocabulary, grammar, and stylistic features stressed. *(3 hours.)*

BIBLICAL INSTRUCTION

Professor Buchholz

The following courses are offered to Juniors and Seniors, embracing such aspects of Biblical study as the University is prepared to give, with a view to providing a major subject in the Bachelor of Arts curriculum that will permit students to begin preparation for work as secretary or physical director of the Y. M. C. A., for welfare work in mills or social settlements, or for the ministry. The courses offered will be conducted by the instructors in the departments under which the various aspects of the subject naturally fall and will be given in a spirit free from sectarianism.

BIBLE I.—*Old Testament History.*—The history of the Israelitish nation as narrated in the books of the Old Testament; the connections between sacred and profane history. The aim is to give the student some conception of the development of the cultural, ethical, and spiritual life of the nation. *(3 hours. Professor Buchholz.)*

BIBLE II. — *New Testament History.* — The period from Herod the Great to the death of John the Evangelist, with special attention to the life of Christ and the development of the early church. Lectures, Bible readings, textbook. *(3 hours. Professor Buchholz.)*

BIBLE III.—*The English Bible as Literature.*—Literary types found in the Bible and the excellence of the work as compared with other great examples of literature. The diction of the 1611 version will be contrasted with that of other translations and its effect upon English literature will be demonstrated. *(3 hours. Professor Farr.)*

BIBLE IV.—*Old and New Testament Greek.*—See Greek VI. *(3 hours. Professor Anderson.)*

BIBLE V.—*The Bible as an Ethical and Religious Guide.*—Those parts of the Old and New Testament which bring out most vividly and directly the moral and religious elements will receive most attention. The aim is to give the student a

keen appreciation of the Bible as the best guide for human conduct. Lectures, Bible readings, studies of great sermons, textbook on Evidences of Christianity. *(3 hours. Professor Cox.)*

BIOLOGY AND GEOLOGY

Professor Davis Assistant Professor Cody

For a description of the laboratories and collections of the department, see pages 24 and 25.

All the courses offered will not be given in any one year, the selection of those taught being determined by the demand.

BIOLOGY

BIOLOGY I*a*.—*General Biology*.—The fundamental properties of living organisms, their structure, activities, development and life-histories. Prerequisite to all other courses in biology. *(2 class and 2 laboratory periods per week; 4 hours.)*

BIOLOGY II*b*.—*General Botany*.—The vegetative functions, structure and life histories of plants. *(2 class and 2 laboratory periods per week; 4 hours.)*

BIOLOGY III*b*.—*General Zoology*.—A general survey of the more important facts relating to the chief groups of animals. Representative forms of the different groups are studied in the laboratory. *(2 class and 2 laboratory periods per week; 4 hours.)*

BIOLOGY IV*b*.—*Physiology and Hygiene*.—The elements of human physiology, hygiene and sanitation. Intended primarily for students who elect only one year's work in biology. *(3 hours.)*

BIOLOGY V.—*Vertebrate Anatomy*.—Recitations and lectures on the comparative anatomy of vertebrates, accompanied by laboratory work on representatives of the principal groups. *(1 class and 2 laboratory periods per week; 3 hours. Prerequisite: Biology III*b*.)*

BIOLOGY VI.—*Economic Zoology*.—This course, designed primarily for agricultural students, is devoted chiefly to the study of insects and related forms, special attention being given to those of economic importance. This is followed by a brief consideration of the principal groups of vertebrates in their relation to agriculture. *(2 class periods and 1 laboratory period per week; 3 hours.)*

BIOLOGY VII*a*.—*Histology and Cytology*.—The protoplasm,

cells, and tissues of the animal body, special attention being given to the development of the germ-cells. *(2 class and 2 laboratory periods per week; 4 hours. Prerequisite: Biology IIIb.)*

BIOLOGY VII*b*.—*Vertebrate Embryology.*—Recitations and lectures on the development of vertebrates with special reference to the chick. *(2 class and 2 laboratory periods per week; 4 hours. Prerequisite: Biology VIIa.)*

BIOLOGY VIII*a*.—*Genetics.*—The laws of variation and inheritance of morphological and physiological characters of animals and plants. *(2 hours.)*

BIOLOGY VIII*b*.—*Evolution.*—Organic evolution and the development of adaptations. *(2 hours.)*

BIOLOGY IX*a*.—*Plant Physiology.*—The fundamental life-processes, including digestion, assimilation, growth, respiration, reproduction, etc. *(2 class periods and 1 laboratory period per week; 3 hours. Prerequisite: Biology IIb.)*

BIOLOGY IX*b*.—*Plant Histology and Anatomy.*—The study of plant tissues and the technic of fixing, sectioning, staining, etc. *(1 class period and 2 laboratory periods per week; 3 hours. Prerequisite: Biology IXa.)*

BIOLOGY X*b*.—*Plant Pathology.*—The causal agents, symptoms, diagnosis, and treatment of truck and citrus diseases. *(1 class period and 2 laboratory periods per week; 3 hours. Prerequisites: Biology IXa and XIa.)*

BIOLOGY XI*a*.—*General Bacteriology.*—The morphology, physiology, and cultivation of bacteria and related micro-organisms. *(2 class and 2 laboratory periods per week; 4 hours. Prerequisite: Chemistry I.)*

BIOLOGY XII*b*.—*Agricultural Bacteriology.*—Soil bacteria and their influence on soil fertility, and bacteria in relation to milk and its products. *(1 class period and 2 laboratory periods per week; 3 hours. Prerequisite: Biology XIa.)*

BIOLOGY XIII*b*.—*Sanitary Bacteriology.*—The principles of water supply, sewage disposal, disinfection, and the control of contagious diseases. *(1 class period and 2 laboratory periods per week; 3 hours. Prerequisite: Biology XIa.)*

GEOLOGY

GEOLOGY I*a*.—*Physical Geology.*—Designed as an introduction to dynamical and structural geology. *(3 hours.)*

GEOLOGY I*b*.—*Historical Geology.*—A study of the geologi-

cal history of the earth and its inhabitants. *(3 hours. Prerequisites: Geology Ia and Biology IIIb.)*

CHEMISTRY

Professor McGhee Assistant Professor Black

This department is intended to meet the requirements of liberal culture and to prepare students for work in the various fields of applied chemistry and research.

Never before have chemists been in such demand; never before have the demands upon them been so great.

The department is supplied with equipment for instruction in general, organic, analytical, and industrial chemistry. See page 24.

CHEMISTRY I.—*General Chemistry.*—First year college chemistry. Special effort is made to combine in due proportion the experimental and the theoretical phases of the subject. Emphasis is placed upon the intelligent writing of reactions. No previous knowledge of chemistry is required, but high-school physics is desirable. *(3 hours and 2 laboratory periods per week.)*

CHEMISTRY III.—*Qualitative Analysis.*—Mainly laboratory work, with class hour for theory, reports and tests by arrangement during the laboratory time. *(3 hours.)*

CHEMISTRY IV.—*Agricultural Chemistry.*—For first semester, see Chemistry V; second semester: three lectures a week without laboratory. *(Open only to agricultural students; 4 hours.)*

CHEMISTRY V.—*Organic Chemistry.*—Lectures, recitations, and laboratory work, planned for pre-medical and agricultural students and others who intend to pursue organic phenomena. *(3 hours class and 2 laboratory periods per week; 5 hours.)*

CHEMISTRY VI.—*Industrial Chemistry.*—See Chemical Engineering.

CHEMISTRY VII*a*. — *Quantitative Analysis.* — Gravimetric analysis of simple compounds. *(First semester; 2 three-hour laboratory periods per week. Prerequisite: Chemistry III.)*

CHEMISTRY VII*b*. — *Quantitative Analysis.* — Sequel to Chemistry VII*a*. Volumetric methods in acidimetry and alkalimetry. *(Second semester; 3 hours.)*

CHEMISTRY IX*b*. — Laboratory and assigned readings, adapted, as far as practicable, to the needs of students in

agriculture and in other specialized lines. Prerequisites or corequisites are Chemistry V and VII*a* and *b*, tho the latter may be adapted to some extent to the needs of students in special lines. *(Second semester; 3 hours.)*

CHEMISTRY X.—See Chemical Engineering.

CHEMISTRY XI.—*Physical Chemistry.*—An introductory course, with some experimental work. *(3 hours.)*

ECONOMICS

Professor ———*

ECONOMICS I.—*Principles of Economics.*—Business, money, banking, industrial organization, labor, taxation, tariffs, and governmental regulation. *(3 hours.)*

ECONOMICS II*a*.—*Money and Banking.*—A brief historical treatment of banking, principles underlying the successful operation of banks. *(First semester; 3 hours.)*

ECONOMICS II*b*.—*Corporation Finance.*—Rise, growth, and development of large business organizations; pools, trusts, corporation, and holding companies; rights of "vested interests"; monopolistic tendencies; governmental regulation, etc. *(Second semester; 3 hours.)*

ECONOMICS III*a*.—*Public Finance and Taxation.*—Revenues and expenditures of public bodies, federal, state, and local; problems of budgetary reform and taxation; leading features of European systems of finance; proposals for reform. *(First semester; 3 hours.)*

ECONOMICS III*b*. — *Transportation.* — The problems of transportation; public and private interests involved; the principles of regulation; the judicial control of common carriers. *(Second semester; 3 hours.)*

ECONOMICS IV*a*.—*Economic History of the United States.* —A general but comprehensive study of the growth of American industry and commerce, with the social and economic problems involved. *(First semester; 3 hours.)*

ECONOMICS IV*b*. — *Labor Problems.* — Industrial labor problems in Europe and America; trade unions; employers' associations; social reforms. *(Second semester; 3 hours.)*

ECONOMICS V.—*Seminar.*—Research problems, devoted particularly to the State of Florida. *(2 hours.)*

*To be elected.

ENGLISH LANGUAGE AND LITERATURE

Professor Farr — Assistant Professor Beck
Miss Foley — Mr. Williams

ENGLISH I.—*Advanced College Rhetoric.*—Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in rhetorical analysis, and in theme writing, the constant correlation of the three as methods of approach to the desired goal being kept in view. In addition a reading course is assigned each student. *(Required of all Freshmen; 3 hours.)*

ENGLISH II.—*History of Language and Literature.*—An outline course in the historical development of the English language and literature. Selections from important prose writers and poets; lectures on the history of the language and literature; a manual for reference; frequent reports from the individual students; constant use of the University library. *(3 hours.)*

ENGLISH III*a*.—*Description and Narration.*—A course for those who have completed English I and who desire to continue composition. More time and energy will be spent on construction than on analysis. Textbook work will be supplemented by lectures and application of principles. Modes and methods of modern description and incidental description will be emphasized. Narrative practice will include the anecdote, feature story, tale, short-story, and fanciful and real narratives. *(First semester; 3 hours. Prerequisite: English I.)*

ENGLISH III*b*.—*Exposition and Argumentation.*—A continuation of English III*a*. The stress will be placed on exposition. Study and composition of the editorial paragraph, editorial article, definition, criticism, biography, and essay. Written argumentation. *(Second semester; 3 hours.)*

ENGLISH IV*a*.—*Milton and the Epic.*—A study of Paradise Lost, around which are grouped studies in the Age of Milton and in the Epic as a type of Comparative Literature. The first four books of the poem are read in class; written reviews on the others alternate each week with essays from the student and lectures by the instructor. Readings in the minor poets of the age and in English translations of the great epics are assigned. *(First semester; 3 hours.)*

ENGLISH IV*b*.—*Shakespere and the Drama.*—Three Shakesperian plays are read in class. On eight others a written

review each fortnight, and on the alternate week essays from the students and lectures by the instructor. Readings in the English drama from the Cycle plays to contemporary production are assigned. *(Second semester; 3 hours.)*

ENGLISH V*a*.—*The Short-Story*.—A study of American, French, Russian, Scandinavian, and English short-stories. The technic of the short-story will be given special attention. Various texts will be studied. The course is planned to be extensive, furnishing the student with a wide knowledge of short-stories and short-story writers. It is to serve as a foundation for a writer's course. *(First semester; 3 hours. Prerequisite: English I.)*

ENGLISH V*b*.—*Writing the Short-Story*.—Primarily a writing course with some study of modern and current short-stories. The student will learn what the various magazines desire, how to prepare manuscript, and how to handle a story idea. *(Second semester; 3 hours.)*

ENGLISH VI*a*.—*American Poetry*.—A rapid survey of the development of poetry in the United States; critical study of a few of the more important authors (Bryant, Whittier, Longfellow, Emerson, Lowell, Poe). *(First semester; 3 hours.)*

ENGLISH VI*b*.—*Southern Literature*.—A detailed study, with extensive reading and essay work; examination of the claims of Florida authors. *(Second semester; 3 hours.)*

ENGLISH VII.—*The English Novel*.—The student reads a list of novels chosen to illustrate chronology and variety of species, analyzes minutely one novel from the technical side, masters the entire work and life of one novelist, and compares closely a novel and a dramatized version of it. It is hoped the student may be so grounded in the classics and his taste and judgment so trained that his reading of novels may not become mere intellectual dissipation. *(3 hours.)*

ENGLISH VIII*b*.—*Modern Poetry*.—Present-day poems and poets. Some modern drama may be included. *(Second semester; 3 hours.)*

ENGLISH IX.—*The Romantic Revival*.—A study in literary movement: the causes and forces which underlie the movement, its phenomena and the authors and works which exhibit them, and a comparison with other movements in literature. The work of Prof. Beers will be used as a basis and the student will be led, by means of extensive reading,

by investigation and essays, and by lectures, to realize the truth of his statements. *(3 hours.)*

ENGLISH X.—*Anglo-Saxon Grammar and Reading.*—Drill in the forms of the early language and an elementary view of its relations to the other members of the Aryan family and of its development into Modern English. The texts in Bright's Anglo-Saxon Reader are studied, and Cook's edition of Judith is read. *(3 hours.)*

ENGLISH XI.—*Chaucer and Middle English Grammar.*—During the first semester the works of Chaucer are read in and out of class. Pronunciation, forms, scansion, condition of text, analogs, and sources are examined. During the second semester, Morris and Skeats' Specimens, Part II, is studied in connection with informal lectures on Middle English viewed as developing from Anglo-Saxon into Modern English. *(Prerequisite: English X; 3 hours.)*

ENGLISH XII.—*Engineering Exposition.*—An attempt to give special training to Engineering students in the preparation of the various kinds of writing they will be called upon to do in the pursuit of their profession. It will consist largely of the writing of papers (upon subjects assigned by the departments in the College of Engineering), which will be criticised and revised. *(Engineering Seniors; 1 hour.)*

ENGLISH XIII.—*Newspaper Writing.*—Designed to train students to write clearly and concisely for newspapers. A small, four-sheet paper, twice a month, will furnish the laboratory work. Journalism. *(1 hour.)*

EXPRESSION AND PUBLIC SPEAKING

Mr. Chapman

EXPRESSION AND PUBLIC SPEAKING.—Particular attention is given to establishing a correct method of breathing, to correcting faulty articulation, and to teaching the principles of interpretation by voice, gesture, and facial expression.

A small tuition fee is charged.

HISTORY AND POLITICAL SCIENCE

Professor Leake

The aims of this department are to give that knowledge of the facts and philosophy of History which belongs to a liberal education, to equip the student for more advanced work in the

historical and social sciences, and to prepare the student for journalism or for the study of the law. With these ends in view the courses are planned to cover a broad field of study in a thoro manner. The department has the necessary library authorities for adequate collateral reading. All students beginning college work in History are advised when possible to take History I before taking up any of the more advanced courses.

The courses in Political Science are planned so that emphasis is laid upon the organization and functions of national, state, and local governments in the United States, with the dual purpose of preparing students for the privileges and responsibilities of citizenship, and of familiarizing them with a concrete example of government, as a foundation for more advanced work in Political Science. Several advanced courses are offered in Constitutional Law, International Law, and Comparative Government.

All the advanced courses offered are not given in any one year.

HISTORY

HISTORY I*a* and I*b*.—*Europe During the Middle Ages.*—A general course in the history of Western Europe from the Teutonic migrations to the close of the Seven Years' War. *(3 hours.)*

HISTORY II*a* and II*b*.—*American History, 1492 to 1830.*—The purpose of this course is to familiarize students with the history of America and of American institutions. Beginning with the period of discovery and colonization a detailed study is made of each colony. The Revolutionary movement, the period of the Articles of Confederation, the adoption of the Federal Constitution, and the social, political, and economic development of the United States up to 1830 are subjected to close analysis. *(3 hours.)*

HISTORY III*a* and III*b*.—*American History, 1830 to the Present.*—The background and causes of the War between the States, the rise and fall of the Confederacy, the Reconstruction Period, the industrial expansion of the United States, and America as a world-power. Especial emphasis is laid on our international relations. *(3 hours.)*

HISTORY IV*a* and IV*b*.—*Modern European History.*—The characteristic features of the Old Regime, the French Revolutionary and Napoleonic Periods, and the development of

Europe from the Congress of Vienna to the Congress of Versailles. *(3 hours.)*

HISTORY V*a* and V*b*.—*English History.*—A brief survey of English History from the Anglo-Saxon invasions to the Norman Conquest, and a more detailed study of the period from 1066 to the present. *(3 hours.)*

POLITICAL SCIENCE

POLITICAL SCIENCE I*a*. — *American Government and Politics.*—A study of the structure and functions of our national and state governments. Thruout the course present-day political problems of national and local interest will be made subjects of class discussion. *(First semester; 3 hours.)*

POLITICAL SCIENCE I*b*.—*Municipal Government.*—An outline of the growth of American municipalities and a study of the organs and functional mechanism of modern cities of the United States and Europe. Emphasis is laid upon the newer tendencies in municipal government, the commission form of government and the city-manager plan coming in for thoro analysis. *(Second semester; 3 hours.)*

POLITICAL SCIENCE II*a*.—*Comparative Government.*—A study of the constitutional structure and organization of the governments of the more important European countries. The object of the course is to enable the student to compare these governments, both in theory and in their practical workings, with each other and with our own. *(First semester; 3 hours.)*

POLITICAL SCIENCE II*b*.—*Principles of Political Science.*—A study of the origin, nature, and functions of the state and a critical examination of ancient, medieval, and modern political theories. *(Second semester; 2 hours.)*

POLITICAL SCIENCE III*a and* III*b*.—*Constitutional Law of the United States.*—Intended to familiarize the student with the leading principles of the American constitutional system. The course will deal principally with the Federal Constitution and with the decisions of the Supreme Court of the United States and will be found of special value to those students who contemplate advanced work in political science or who intend to enter upon the study of the law. *(3 hours.)*

POLITICAL SCIENCE IV*a* and IV*b**.—*International Law.*—The object of this course is to set forth the rules and principles

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*Open only to advanced students.

of International Law as a positive system with a historical background of custom and convention. The attributes of sovereign states, and their rights and duties as members of the family of nations, in peace, in war, and in the relation of neutrality will receive adequate treatment. *(3 hours.)*

MATHEMATICS

Professor Simpson Professor Cawthon*
Acting Assistant Professor Higgins

The work in the Department of Mathematics is planned with a threefold purpose in view:

1. For those who intend to *specialize* in Mathematics it provides the preparation for more advanced work. Several advanced courses are offered such students.

2. To those who need Mathematics as an *instrument* it offers opportunities to become familiar with this instrument. The application of Calculus not only to Physics, Chemistry, and Engineering, but even to such seemingly remote realms as Psychology and Political Economy, makes it advisable that this class should continue the study of Mathematics at least so far as to include Calculus.

3. To others it gives logical training in Analysis and Proof, introduces them to that scientific method par excellence of the Hypothesis, and develops the idea of a deductive system in its classical form.

MATHEMATICS A.—Solid Geometry. *(2 hours.)*

MATHEMATICS B.—Plane Trigonometry and Logarithms. *(2 hours.)*

MATHEMATICS I.—Plane Analytic Geometry and College Algebra. *(3 hours.)*

MATHEMATICS II. — Spherical Trigonometry and College Algebra. *(1 hour; not given in 1920-21.)*

MATHEMATICS III. — Differential and Integral Calculus. *(3 hours.)*

MATHEMATICS IV.—Solid Analytic Geometry and Calculus. *(2 hours.)*

MATHEMATICS V. — Advanced Calculus and Differential Equations. *(2 hours.)*

MATHEMATICS VI.—Theory of Equations, Complex Numbers, and Determinants. *(3 hours.)*

*Until Dec. 1, 1919.

MATHEMATICS VII. — Modern Projective Geometry. *(3 hours.)*

MODERN LANGUAGES

Professor Crow

Extensive courses of reading, in and out of class, frequent exercises, oral and written, and studies in literature and language form the chief feature of instruction.

Authors and textbooks vary from year to year. Tho the classics are not neglected, special attention is paid to the literature of the Nineteenth Century.

All the courses offered will not be given in any one year.

FRENCH

FRENCH A.—*Elementary Course.*—Pronunciation, forms, elementary syntax, dictation, written exercises, memorizing of vocabularies and short poems, translation. *(3 hours.)*

FRENCH I.—*Intermediate Course.*—Work of elementary course continued, advanced grammar, including syntax, prose composition, translation of intermediate and advanced texts, sight reading, parallel. *(3 hours.)*

FRENCH II.—*Advanced Courses.*—Syntax, stylistic, composition, history of French literature, selections from the dramatists or novelists, as class may decide. *(3 hours.)*

FRENCH III.—*Romance Philology.—(Prerequisites: French II and Latin II; 3 hours.)*

SPANISH

SPANISH A.—*Elementary Course.*—Pronunciation, forms, elementary syntax, dictation, written exercises, memorizing of vocabularies and short poems, translation. *(3 hours.)*

SPANISH I.—*Intermediate Course.*—Work of elementary course continued, advanced grammar, including syntax, prose composition, translation, parallel. *(3 hours.)*

SPANISH II. — *Commercial Correspondence. — (Optional, subject to instructor's permission; 3 hours.)*

MUSIC

Mr. Marchio

This department aims to foster a love for good music and to encourage students to use their musical abilities and training for the benefit of themselves and others. It trains and directs the student chorus, the chapel choir, the glee and man-

dolin and guitar clubs, the orchestra, and the University band, and offers private instruction in voice and in violin and other instruments. It seeks to cooperate with the musical organizations of Gainesville and in conjunction with them to give several public entertainments during the year.

Owing to the lack of funds for the department, a small tuition fee is charged for private instruction.

PHILOSOPHY

Professor Cox

The primary aim of this department is to give the student a broad outlook upon life in general, as well as a better understanding of his own life from psychological, ethical, and metaphysical viewpoints. Philosophy lies nearer today than ever before to the various sciences on the one hand and to the demands of practical life on the other.

Another very important aim is to aid in the professional training of teachers. For description of the equipment for carrying on mental and physical tests, see page 25.

Students may begin with Course I*a*, II*a*, or III*a*. Juniors and Seniors may begin also with Course VII*a*.

PHILOSOPHY I*a*.—*General Psychology*.—Facts and theories current in general psychological discussion: the sensations, the sense organs, and the functions of the brain; the higher mental functions—attention, perception, memory, feeling, emotion, volition, the self; and like topics. *(First semester; 3 hours.)*

PHILOSOPHY I*b*.—*Logic, Inductive and Deductive*.—The use of syllogisms, inductive methods, logical analysis, and criticisms of fallacies. *(First semester; 3 hours.)*

PHILOSOPHY II*a*.—*Ethics*.—Principles of Ethics: study of such topics as goodness, happiness, virtue, duty, freedom, civilization, and progress; history of the various Ethical Systems. *(First semester; 3 hours.)*

PHILOSOPHY II*b*.—*Practical Ethics*.—The moral problems of the individual and of social life. *(Second semester; 3 hours.)*

PHILOSOPHY III*a*.—*The Philosophical Poets*.—Philosophical problems and their solution as given by the world's greatest poets. Such problems as Creation, Nature, Life, Freedom, and

Conduct will be given special attention. *(Second semester; 3 hours.)*

PHILOSOPHY III*b*. — *Experimental Psychology*. — Mainly laboratory work with standard apparatus on the current problems in Experimental Psychology. Special attention given to methods of psychological investigation and the collection and treatment of data. *(Second semester; 3 hours.)*

PHILOSOPHY IV*a*.—*Social Psychology*.—Influences of social environment upon the mental and moral development of the individual. *(First semester; 3 hours.)*

PHILOSOPHY IV*b*. — *Abnormal Psychology*. — Abnormal phases of mental life: dreams, illusions, hallucinations, suggestions, hypnotism, hysteria, diseases of the memory, diseases of the will, etc. Special attention given to mental hygiene. *(Second semester; 3 hours.)*

PHILOSOPHY V*a*.—*Genetic Psychology*.—The course of development in the child from birth to adolescence. *(First semester; 3 hours.)*

PHILOSOPHY V*b*.—*Genetic Psychology*.—Animal instincts and intelligence. *(Second semester; 3 hours.)*

PHILOSOPHY VI*a*.—*Philosophy of Conduct*.—The problems of conduct and of religion in the light of contemporary discussion: the problems of philosophy from the standpoint of practical every-day life. *(First semester; 3 hours.)*

PHILOSOPHY VI*b*.—*Philosophy of Nature*.—Man's relation to and his place in Nature; the various philosophical doctrines: Animism, Pantheism, Materialism, Realism, Agnosticism, Humanism, Idealism, etc. *(Second semester; 3 hours.)*

PHILOSOPHY VII*a*.—*History of Ancient Philosophy*.—The development of philosophic thought from its appearance among the Ionic Greeks to the time of Descartes. Special attention will be given to the philosophy of Plato and Aristotle. *(First semester; 3 hours.)*

PHILOSOPHY VII*b*. — *History of Modern Philosophy*. — A continuation of VII*a*. Special attention will be given to the works of Descartes, Spinoza, Leibnitz, Kant, Hume, etc. *(Second semester; 3 hours.)*

PHILOSOPHY VIII*a*.—*Advanced Psychology*.—The theoretical problems in the field of modern psychology; the practical aspects of psychology as applied to Business, Law, Medicine, Education, etc. *(First semester; 3 hours.)*

PHILOSOPHY VIII*b*.—*Advanced Psychology*.—Continuation of VIII*a*. *(Second semester; 3 hours.)*

PHYSICAL EDUCATION

Professor Buser

This department has jurisdiction over all athletic, aquatic, and gymnastic activities. It seeks: (1) To develop health, vigor, and good physical habits; (2) to provide an incentive and an opportunity for every student to secure at least one hour's physical activity daily as a balance to the sedentary demands of university life; (3) to conserve the social and moral values of games and sports; (4) to encourage and develop intramural sports; and (5) to make athletic sports an essential factor in military training.

Students will not be excused from the prescribed training during the first two years unless they substitute a satisfactory equivalent. They are supposed to be able to swim a distance of fifty yards by the end of the Sophomore year. No student will be permitted, however, to participate in intercollegiate or intramural competitive games or to become a candidate for football or other team, until he has secured, after examination, the written permission of a competent physician.

Activities are conducted out of doors in so far as the weather permits. The regulation suit consists of white sleeveless shirt, running pants, supporter, and rubber-soled shoes.

When needed, special coaches are engaged.

I. DEVELOPMENT EXERCISES. — *(Required of Freshmen and delinquent Sophomores; credit, 1 hour; 2 actual hours.)*

II. ADVANCED EXERCISES. — Various athletic activities. *(Required of Sophomores; credit, 1 hour; 2 actual hours.)*

III. FIRST AID TO INJURED.—*(Elective for Freshmen and Sophomores; credit, 1 hour; 2 actual hours.)*

PHYSICS

Professor Benton Assistant Professor Perry

The work of this department is intended to meet the needs, on the one hand, of those who study physics as a part of a liberal education and, on the other hand, of those who will have to apply physics as one of the sciences fundamental to engineering, or to medicine.

Instruction is given by (1) recitations based upon lessons assigned in textbooks; (2) laboratory work, in which the

student uses his own direct observation to gain knowledge of the subject; (3) lectures, in which experimental demonstrations of the principles under discussion are given; and (4) seminar work in the advanced courses, in which the various members of the class take up special problems requiring extended study or investigation and report upon them.

The physical laboratory (see page 25) is well equipt for the experiments usually required in undergraduate laboratory work in the best colleges. The equipment has been greatly increased in the last few years and additions are made to it from year to year.

PHYSICS I.—General physics, including mechanics, heat, acoustics, and optics, but not electricity and magnetism. *(Prerequisite: Plane Trigonometry; 1 lecture and 2 recitations per week.)*

PHYSICS II.—General laboratory physics, to accompany Physics I. *(2 exercises of 2 hours each per week.)*

PHYSICS III.—General electricity and magnetism, being a continuation of Physics I. *(2 recitations and one 2-hour laboratory exercise per week.)*

PHYSICS V.—General physics, including mechanics, heat, sound, light, electricity, and magnetism. Designed to meet the needs of the general student, and of those taking the Pre-Medical Course. *(3 recitations and one 2-hour laboratory period per week.)*

ADVANCED COURSE IN PHYSICS.—Six advanced courses in physics, as elective for Juniors, Seniors, and Graduate Students, have been planned: Advanced Experimental Physics, General Mathematical Physics, Mechanics and Acoustics, Heat, Optics, Theoretical Electricity. Each course is arranged to extend thru two semesters and to require three hours per week of classroom work, or equivalent time in the laboratory. Any one may be given when elected by three or more students.

SOCIOLOGY AND POLITICAL SCIENCE

Professor Sims*

All the courses offered will not be given in any one year.

SOCIOLOGY

SOCIOLOGY I.—*Principles of Sociology.*—A fundamental course dealing with society as to origin, relation to environ-

*Resigned.

ment, composition, organization, control, mind, types of association, institutions, evolution, progress. *(3 hours.)*

SOCIOLOGY II*a*.—*Social Evolution.*—The doctrine of evolution applied to human origin, society, forms of association, types of civilization. *(Prerequisite: Sociology I; first semester; 3 hours.)*

SOCIOLOGY II*b*.—*Progress and Reform.*—The rise of the concept of progress; various theories of progress; factor of progress; reform proposals—ethical, economic, and biological. *(Prerequisites: Sociology I and IIa; second semester; 3 hours.)*

SOCIOLOGY III.—*Rural Sociology and Economics.*—The rural problem—present status, population movements, types of communities, the rural mind, economic conditions, farm labor, rural improvement—health, sanitation, morality; institutions—school, church, farmers' organizations, home-life, fairs; government; cooperation; socialization; progress. *(3 hours.)*

SOCIOLOGY IV*b*.—*Race Problems.*—The negro problem in its anthropological, social, political, and economic aspects, etc. *(Second semester; 3 hours.)*

SOCIOLOGY V*a*.—*Rural Community Organization.*—Definition, types, problems, leadership, methods, etc. *(For advanced students in rural sociology; Prerequisite: Sociology III; first semester; 2 hours.)*

SOCIOLOGY V*b*.—*Social Psychology.*—The social mind—general view; the mind of primitive and of modern man; mental types; the role of instinct, feeling, and intellect in society—mobs; folkways and mores; change and revolution. *(First semester; 3 hours.)*

SOCIOLOGY VI*b*.—*Modern Social Theories.*—Lectures and readings on the social theories of Comte, Mill, Spencer, Gumplowicz, Tarde, Ward, Cooley, Ross, Giddings, and others. *(For graduate and advanced students; second semester; 3 hours.)*

SOCIOLOGY VII.—*Seminar.*—Problems in statistical method, etc. *(For graduate and advanced students; hours to be arranged.)*

POLITICAL SCIENCE

POLITICAL SCIENCE I.—*American Government.*—Historical review; federal, state, and local government; administrative,

legislative, and judicial aspects of government in operation; political parties and problems. *(3 hours.)*

POLITICAL SCIENCE II*a* or *b*.—*Municipal Government.*—Municipal organization and administration in the United States and Europe. *(Either semester; 3 hours.)*

POLITICAL SCIENCE III*a* or *b*.—*Democracy.*—Primitive, ancient, modern, and ultimate democracy; democratic and antidemocratic forces. Special reference to American society. *(Either semester; 3 hours.)*

POLITICAL SCIENCE III*a* or *b*.—*Principles of Political Science.*—Theory and practice of government in general. *(Either semester; 3 hours.)*

POLITICAL SCIENCE IV*a* or *b*.—*International Law and Diplomacy.*—Arbitration, courts, diplomacy, world organization. *(Either semester; 3 hours; by special arrangement.)*

COLLEGE OF AGRICULTURE

P. H. ROLFS, *Dean*

GENERAL STATEMENT

The College of Agriculture has three divisions:

1. Instructional Division (the College proper).
2. Research Division (Experiment Station).
3. Extension Division.

THE COLLEGE

FACULTY.—P. H. Rolfs, E. C. Beck, A. P. Black, R. W. Blacklock, L. W. Buchholz, H. G. Clayton, M. D. Cody, H. S. Davis, J. M. Farr, W. L. Floyd, G. L. Herrington, W. S. Higgins, E. W. Jenkins, J. M. Leake, J. L. McGhee, C. K. McQuarrie, F. Rogers, N. W. Sanborn, A. L. Shealy, T. M. Simpson, A. P. Spencer, J. E. Turlington, S. L. Vinson, B. Ward, C. H. Willoughby.

Special Lecturers for 1919-1920

Dr. E. W. Berger, *Entomologist, State Plant Board.*
Dr. W. F. Blackman, *Member State Livestock Sanitary Board.*
R. C. Blake, *Poultryman.*
Dr. J. W. DeMilly, *State Veterinarian.*
Miss Minnie Floyd, *Specialist in Home Poultry Work.*
W. C. Funk, *Office of Farm Management, U. S. Dept. Agri.*
Prof. H. Harold Hume, *President State Horticultural Society.*
Dr. A. H. Logan, *Field Agent, U. S. D. A., Bureau of Animal Industry.*
H. A. Marks, *Bureau of Crop Estimates, U. S. Dept. Agri.*
Hon. W. A. McRae, *Commissioner of Agriculture.*
Wilmon Newell, *State Plant Commissioner.*
F. M. O'Byrne, *State Nursery Inspector.*
Capt. R. E. Rose, *State Chemist.*
Frank Stirling, *General Inspector, State Plant Board.*
R. W. Storrs, *Member State Livestock Sanitary Board.*
Dr. H. G. Webber, *Director California Experiment Station.*

Special lectures are given also by members of the Experiment Station and Extension Staffs.

AIM AND SCOPE.—The College was established under the Acts of Congress creating and endowing institutions for the

liberal and practical education of the industrial classes. Recognition of agriculture as a branch of collegiate instruction is a distinctive feature of schools thus founded.

The aim of the College is to afford young men the best possible opportunity for gaining technical knowledge and training in the art and science of agriculture. About one-third of the student's time is devoted to technical studies, the other two-thirds to cultural studies and basic sciences. A foundation is thus laid which will enable graduates to become leaders in educational work or effective producing agriculturists.

EQUIPMENT.—*Agricultural Hall* provides space for offices and for classrooms and laboratories for the departments of agronomy, animal husbandry and dairying, agricultural engineering, poultry, veterinary science, and horticulture.

Libraries.—Many works on agriculture and horticulture have recently been added to the general library. A trained librarian aids students in finding needed references. Each department has, furthermore, a small collection of well-selected volumes, which are always accessible. The Experiment Station library, which is open every forenoon, contains a very complete set of bulletins from the experiment stations of the world and from the U. S. Department of Agriculture, all fully indexed and carefully filed.

Farms.—The College farm, used for instruction and for growing crops with which to feed the instruction herds, consists of 225 acres: 10 acres for trucking, 100 acres for pasture and field crops, 5 acres for orchard, 15 acres for soiling purposes and stock lots, and 5 acres for buildings and grounds. The equipment includes a hay and storage barn, sweet-potato storage house, a farm-foreman's house, a dairy barn, a machinery shed and corn crib, a potting house, poultry houses and yards, and several irrigation systems. The Experiment Station farm and farm buildings are easily accessible.

AGRONOMY DEPARTMENT

The *Agronomy Department* occupies four rooms—a large, well-lighted and equipt soil laboratory, with adjoining storage and work room, an office, and a classroom.

The soil laboratory is equipt with microscopes, sampling augers, tubes, and carriers; balances, ovens, soil thermometers, packers, cylinders, and tubes; moisture absorption box with trays; percolation, capillary, and evaporation apparatus;

sieves, shaker, etc. This equipment is of the best type and is fully adequate. There are three large stone-top desks, with individual lockers for seventy-two students. The storage room is provided with soil bins, packer, cases, and shelving in abundance.

For *Agricultural Engineering* work there are two laboratories—the one for farm motors and iron work, the other for farm machinery and wood work. They are equipt with gasoline engines, feed grinders, stalk cutter, walking and riding plows, various types of harrows, walking and riding cultivators, seeders, one- and two-horse corn planters, manure spreader, surveying implements, several of the best types of power sprayers and farm tractors, a farm lighting-system, etc. Stress is laid upon instruction in farm machinery, because labor-saving appliances have not yet come into general use in Florida.

HORTICULTURAL DEPARTMENT

The *Horticultural Department* has a large, well-furnished lecture-room, a laboratory equipt with microscopes, wall-cases for preserved specimens, and an ample storeroom for material and supplies. In addition to these, provision is made for practical work outdoors. A propagating house and a nursery on the farm are used in carrying on stratification, layerage, cuttage, budding, grafting, and other methods of plant propagation; trees of different kinds are growing in the orchard, which, tho still small, is being gradually enlarged; hot beds and cold frames are provided for starting young plants; an irrigation plant has been installed with Skinner, Campbell, Skinner-Stephens, Florida Favorite, and modified Skinner sprinkling devices and a surface furrow system; and large canvas-covered frames for growing crops to maturity in winter have been constructed.

ANIMAL HUSBANDRY DEPARTMENT

The *Animal Husbandry Department* is provided with a lecture-room containing seats for sixty students and a paddock, 12x24 feet in size, with concrete floor and iron railing, for exhibiting animals. The equipment includes a two-ton Fairbanks platform scale, tape lines, measuring standards, projectors, and a large assortment of lantern slides representing the various breeds. In the dairy barn a stock-judg-

ing arena, 30x40 feet, has been provided for practice in scoring animals.

For work in *Dairying* the College has a large, well-lighted laboratory, equipt with several makes of hand-power cream separators, churns, and butter workers; milk cooler, gravity creamer, vats for cream ripening and cheese making; scales, wash sinks, sterilizer, and minor apparatus.

The milk-testing laboratory contains working desks and machinery for all modern tests of dairy products. The equipment includes Babcock testers of different sizes, cream scales, lactometers, acidmeters, butter-moisture tests, and the necessary glassware, reagents, etc.

For work in *Poultry Husbandry* are used an office, a storeroom, and a laboratory. The equipment includes several different types and sizes of incubators and brooders, feed hoppers, trap nests, and various poultry-yard appliances. Excellent flocks of White Plymouth Rock, Rhode Island Red and Buff Wyandotte breeds have recently been secured for breeding and instruction purposes; other breeds will be added in the future. Laboratory equipment is available for study of the development of the egg and chick, and for practice in caponizing, killing, dressing, and marketing poultry according to the most approved methods. Students will assist in the care and management of the poultry at the College, and make visits to private poultry plants in the vicinity. Poultry exhibits at the County and State Fairs will be used for practice in judging the different breeds.

The *Barns* and *Livestock* include: A barn for the horses and mules used on the farm and campus; a large dairy barn of modern sanitary construction, provided with concrete floors and silos, steel stanchions and fittings, for the herd of high-grade Holsteins and registered Jerseys belonging to the Experiment Station; representative animals of the Shorthorn and Aberdeen Angus breeds; pens and grazing-yards with modern shelters and equipment, containing breeding herds of Berkshire, Poland China, Duroc Jersey, Tamworth, and Chester White hogs. Other breeds and classes of animals are being added from year to year. A concrete dipping-vat, built in cooperation with the Florida State Board of Health, is used for demonstrations of cattle-tick eradication.

The *County and State Fairs of Florida* provide excellent

practice each year in showing and in judging animals. Students are encouraged to take part in judging contests and to aid in show-ring work. The Southeastern Fair, Atlanta, Ga., offers prizes and medals to competing teams from southern agricultural colleges. The Alachua County Fair, at Gainesville, and the Florida State Fair, at Jacksonville, offer cash prizes and diplomas to students making the best records in stock judging. Several large herds of cattle and hogs within a few miles of the University, in Alachua and Marion counties, are available for inspection and judging purposes. The meat-packing houses and dairy plants of Jacksonville and vicinity are freely offered for study, and trips for this purpose under the guidance of instructors are arranged annually.

VETERINARY DEPARTMENT

The *Veterinary Department* is provided with a lecture-room, with seats for sixty students, equipt with cabinets containing various medicinal agents and surgical instruments. The laboratory is supplied with microscopes for the study of normal and diseased tissue specimens. The equipment includes also a mounted skeleton of a horse and one of an ox, an assortment of charts, models of the organs of the various farm animals, preserved specimens of diseased organs and of parasites, and a good library.

THE AGRICULTURAL CLUB.—This is a voluntary association of students of the College. Its purpose is to give training in public speaking and in preparation for leadership. The programs consist mainly of speeches, essays, and of debates on agricultural or civic topics.

SCHOLARSHIPS.—*County Scholarships.*—Provision has been made by Legislative act for a scholarship, sufficient to pay the board of a student in the College of Agriculture, from each county, to be provided for at their discretion by the various Boards of County Commissioners. The recipient is to be selected by competitive examination from among the qualified applicants.

Whether such a scholarship has been provided for may be learned from the Clerk of the Board of Commissioners or the Demonstration Agent of the county in question. Other information regarding it may be obtained from the College of Agriculture.

Boys' Clubs Scholarships.—The Florida Bankers' Association offers club boys three prize scholarships, of $100 each, in the College of Agriculture: one for the Western, one for the Central, and one for the Southern district.

Williamson and Dennis, of Jacksonville, offer two first-prize scholarships, of $250 each, in the College of Agriculture: one to Pig-Club, the other to Beef-Calf-Club boys. Recipients are named by the Agents of the Boys' Clubs.

LOAN FUNDS.—*William Wilson Finley Foundation.*—As a memorial to the late President Finley and in recognition of his interest in agricultural education, the Southern Railway Company has donated to the University the sum of one thousand dollars ($1,000), to be used as a loan fund. No loan from this fund to an individual is to exceed $150 per year. Recipients are selected by the Dean of the College of Agriculture, to whom all applications should be directed.

Loan funds available for students in any college of the University, as well as the conditions under which loans are made, will be found described on page 36.

REMUNERATIVE AND INSTRUCTIVE LABOR. — Opportunities frequently occur for students to work in the fields and truck gardens, about the barns, in the buildings, and at the Agricultural Experiment Station. The compensation ranges from twenty to twenty-five cents per hour, according to the experience of the student and the nature of the work. Those who, during vacation periods, engage in agricultural pursuits will be markedly benefited and after graduation will command more desirable positions or find their efforts on the farm more effective. (See also Opportunities for Earning Expenses, page 34.)

Donations and Loans.—The laboratories have been supplied with much of their farm machinery for instructional purposes thru the generosity of the following manufacturers:

Stover Manufacturing Company, Freeport, Ill.
Wilder-Strong Implement Company, Monroe, Mich.
Bean Spray Pump Company, Lansing, Mich.
The Deming Company, Salem, Ohio.
E. C. Brown Company, Rochester, N. Y.
Oliver Chilled Plow Company, Moline, Ill.
Alamo Farm Lighting Company, Omaha, Nebr.
Cleveland Tractor Company, Cleveland, Ohio.
Bissell Harrow Company, Fort Valley, Ga.
Hardie Spraying Machine Company, Hudson, Mich.
Hercules Engine Company.

COURSES.—The following courses are offered:

1. A Four-Year Course.
2. A Middle Course of Two Years.
3. A One-Year Course.
4. Two Four-Month Courses.
5. Four Ten-Day Courses for Farmers.

FOUR-YEAR COURSE

ENTRANCE REQUIREMENTS.—See pages 39 to 45.

GROUPS.—The group courses offered afford the individual student opportunity for preparing for that branch of agriculture for which he is best suited. The Agronomy Group should be selected by those wishing to pursue general farming; the Animal Husbandry Group by those desirous of raising livestock; the Horticultural Group by those interested in fruit growing or truck farming; and the Agricultural-Chemical Group by those desiring to become analysts.

No student will be allowed to take more than eighteen hours of work, unless his general average during the previous year was at least 87, with no failure in any study; or more than twenty hours, unless the previous year's average was at least 90, with no failure.

CREDITS FOR PRACTICAL WORK.—Students who, by previous arrangement with the head of a department and the Dean, do practical work, during their course of study, in any recognized agricultural pursuit, and who render competent and faithful service, will, on returning to College and presenting a satisfactory written report, be entitled to one semester-hour credit for each month of such work. Such credit shall not total more than six semester-hours in the Two-Year and Four-Year courses.

FARM EXPERIENCE REQUIRED.—At least three months of practical work is required before graduation, but credit for this will be given only as stated above.

DEGREE.—The work outlined in the following tables, whatever the major subject, leads to the degree of Bachelor of Science in Agriculture (B. S. A.).

CURRICULUM

Leading to the Degree of Bachelor of Science in Agriculture

FOR ALL GROUPS

Freshman Year

Names of Courses	Nature of Work	*Hours per Week	
Agricultural Engineering I	Farm Machinery and Motors	4	0
Agronomy I	Elements of Agronomy	2	2
Animal Husbandry I	Types and Breeds of Animals	0	4
Biology I	General Biology	4	0
Biology II	General Botany	0	4
English I	Advanced College Rhetoric	3	3
Horticulture I	Plant Propagation	2	2
Mathematics B	Plane Trigonometry	2	2
Military Science I		1	1
		18	18

Sophomore Year

Agronomy II	Field Crops	3	0
Agronomy III	Forage Crops	0	3
Biology VI	Economic Zoology	3	3
Chemistry I	General Chemistry	5	5
Horticulture II or Animal Husbandry II & III	Trucking Animal Feeding and Breeding	2	2
Military Science II		2	0
Veterinary Science I	Veterinary Elements	0	3
Elective		1	0
		16	16

AGRONOMY GROUP

Junior Year

Names of Courses	Nature of Work	*Hours per Week	
Agronomy IV	Fertilizers	0	3
Biology IX	Plant Physiology	3	0
Biology XI	General Bacteriology	4	0
Biology XII	Agricultural Bacteriology	0	3
Chemistry V	Organic Chemistry	5	5
Economics I or Sociology III	Principles of Economics Rural Sociology	3	3
Elective		1	2
		16	16

*The first column gives the hours per week for the first semester, the second column the hours per week for the second semester.

Senior Year

Agricultural Engineering II	Buildings, Roads, Irrigation, and Drainage	3	0
Agronomy V	Soil Technology	3	3
Agronomy VI-VII	Farm Management	3	3
Biology X	Plant Pathology	0	3
Horticulture IX	Landscape Gardening	0	2
Elective		7	5
		16	16

ANIMAL HUSBANDRY GROUP

Junior Year

NAMES OF COURSES	NATURE OF WORK	*HOURS PER WEEK	
Animal Husbandry IV	Beef Production	2	0
Animal Husbandry V	Swine Production	0	2
Biology XI	General Bacteriology	4	0
Biology XII	Agricultural Bacteriology	0	3
Dairying I	Dairy Products	3	0
Dairying II	Dairy Farming	0	3
Poultry Husbandry I	Farm Poultry	0	3
Veterinary Science II	Veterinary Anatomy & Physiology	3	3
Elective		4	2
		16	16

Senior Year

Agronomy VI-VII	Farm Management	3	3
Agricultural Engineering III	Irrigation and Drainage	3	0
Poultry Husbandry II	Incubation and Brooding	0	2
Poultry Husbandry III	Poultry Management	0	2
Veterinary Science III	Diseases of Farm Animals	3	3
Elective		7	6
		16	16

*The first column gives the hours per week for the first semester, the second column the hours per week for the second semester.

HORTICULTURAL GROUP

Junior Year

Names of Courses	Nature of Work	*Hours per Week	
Agronomy IV	Fertilizers	0	3
Biology IX	Plant Physiology	3	0
Biology XI	General Bacteriology	4	0
Biology XII	Agricultural Bacteriology	0	3
Horticulture IV	Citrus Culture	3	0
Horticulture V	Citrus Harvesting, Marketing and Judging	0	2
Horticulture VII	Deciduous and Subtropical Fruits	3	0
Horticulture VIII	Plant Breeding	0	3
Economics I or Sociology III	Principles of Economics / Rural Sociology	3	3
Elective		0	2
		16	16

Senior Year

Agronomy V	Soil Technology	3	3
Agronomy VI, VII	Farm Management	3	3
Biology X	Plant Pathology	0	3
Horticulture IX	Landscape Gardening	0	2
Horticulture VI or Horticulture X	Insects and Diseases of Citrus Fruits / General Forestry	3	0
Elective		7	5
		16	16

AGRICULTURAL-CHEMICAL GROUP

Junior Year

Names of Courses	Nature of Work	*Hours per Week	
Agronomy IV	Fertilizers	0	3
Bacteriology I	General Bacteriology	3	0
Bacteriology II	Agricultural Bacteriology	0	3
Chemistry III	Qualitative Analysis	3	3
Chemistry V	Organic Chemistry	5	5
Elective		5	2
		16	16

Senior Year

Chemistry VII	Quantitative Analysis	3	3
Chemistry IX	Chemistry of Soils, Fertilizers, etc.	0	3
Economics I or Sociology III	Principles of Economics / Rural Sociology	3	3
Elective		10	7
		16	16

*The first column gives the hours per week for the first semester, the second column the hours per week for the second semester.

DEPARTMENTS OF INSTRUCTION

AGRONOMY AND AGRICULTURAL ENGINEERING

Professor Turlington Assistant Professor Rogers

AGRONOMY

The laboratory work and field observation aim to fix the principles learned in the classroom and to give them practical application.

AGRONOMY A*a*.—*Elements of Agronomy.*—The soil as related to plant growth and the principles governing the production of the field and forage crops of Florida. *(Short Courses, Vocational and Practice High School; 3 hours.)*

AGRONOMY B*b*.—*Fertilizers.*—An elementary study of fertilizers, their nature and reaction on the soil and crop; fertilizer formulas and home mixing. A thoroly practical course, dealing with Florida conditions. *(Short Courses, Vocational and Practice High School; 3 hours.)*

AGRONOMY I*a*.—*Elementary Soils.*—The origin, formation, and classification of soils; general methods of soil management and the adaptation of soils to the requirements of plants. *(Freshman year; 2 hours.)*

AGRONOMY I*b*.—*Elementary Crops.*—The origin, classification, and use of crop plants; and the fundamental processes of plant growth and reproduction. *(Freshman year; 2 hours.)*

AGRONOMY II*a*.—*Field Crops.*—The various grain, fiber, and sugar crops with respect to their habits of growth, soil adaptations, fertilizer requirements, general methods of tillage and harvesting, and the most profitable forms in which to market them. Special attention will be given to corn, cotton, and sugar cane. *(Sophomore year; class 2 hours, laboratory 2 hours; credit 3 hours.)*

AGRONOMY III*b*.—*Forage Crops; Legumes, Grasses, etc.*—Legumes, grasses, and miscellaneous forage plants, and their adaptability to the various Florida soils, seeding and cultural methods, harvesting and storing, composition and use, illustrated by specimens brought before the students and by field observations. This course includes one hour per week of work

in the botany of grasses, given by the botanist. *(Sophomore year; 3 hours.)*

AGRONOMY IV*b*.—*Fertilizers*.—The nature, composition, and sources of fertilizers and their reaction on soils and crops. Fertilizer formulas and home-mixing. The making and economical use of farm manures. Fertilizer requirements for various crops, etc. *(Junior year; 3 hours.)*

AGRONOMY V.—*Soil Technology*.—The physical, chemical, and biological properties of soil as related to soil fertility and crop production; soil management and drainage. *(Senior year; recitations 2 hours, laboratory 2 hours; credit 3 hours.)*

AGRONOMY VI*a*.—*Farm Management*.—The factors of production; systems of farming, their distribution and adaptation; farm accounts; problems of labor, machinery, storing, marketing, laying out farms, rotation systems. *(Senior year; 3 hours.)*

AGRONOMY VII*b*. — *Advanced Course in Farm Management*.—Special stress given to laying out and locating various buildings, lots, fields, and crops; cropping systems; surveys made in other states. *(Senior year; 3 hours.)*

AGRONOMY VIII*b*.—*Soil Management*.—Factors in crop production, loss of plant food, methods and results obtained by investigators; laboratory and field experiments. *(Elective for Seniors; 3 hours.)*

AGRONOMY IX*b*.—*Rural Law*.—Classification of property, boundaries, fences, stock laws, rents, contracts, deeds, mortgages, taxes, laws governing shipping, etc. *(Elective, Junior or Senior year; 2 hours.)*

AGRONOMY X*a* or *b*.—*Special Courses*.—Special courses will be offered at the option of the instructors, on approval of the Dean.

AGRICULTURAL ENGINEERING

Assistant Professor Rogers

AGRICULTURAL ENGINEERING I*a*. — *Farm Machinery*. — The construction, selection, and operation of seeding, tilling, and harvesting machinery. *(Freshman year; recitations 2 hours, laboratory 4 hours.)*

AGRICULTURAL ENGINEERING II*a*. — *Farm Motors*. — The sources of power on the farm: windmill, gasoline and kerosene engines; special attention given to farm tractors. *(Junior or Senior year; recitations 2 hours, laboratory 2 hours.)*

AGRICULTURAL ENGINEERING IIIa.—*Drainage and Irrigation.*—Farm surveying, drainage and irrigation systems; practice in making surveys and in designing systems. *(Senior year; recitations 2 hours, laboratory 2 hours.)*

AGRICULTURAL ENGINEERING IVb. — *Farm Buildings.* — Ventilation, sanitation, construction, cost, management, laboratory work in designing and drawing plans. *(Junior or Senior year; recitations 2 hours, laboratory 2 hours.)*

AGRICULTURAL EDUCATION

Professor Turlington Miss Miltimore

AGRICULTURAL EDUCATION Ia.—*Library Work.*—Instruction in use of card catalog, readers' guides, agricultural indexes, and reference books; practice in collecting and making notes on assigned subjects. *(1 hour.)*

AGRICULTURAL EDUCATION IIb.—*Agricultural Organizations.*—The organization and proceedings of agricultural societies. *(Freshman year; 1 hour.)*

AGRICULTURAL EDUCATION IIIa.—*Methods of Teaching Agriculture.*—Instruction and practice in methods of presenting agricultural subjects; materials and laboratory usage. *(1 hour.)*

AGRICULTURAL EDUCATION IVb.—*History of Agriculture.*—Lectures and library work on the history and development of agricultural education. *(2 hours.)*

ANIMAL HUSBANDRY AND DAIRYING

Professor Willoughby Professor Sanborn

ANIMAL HUSBANDRY

The livestock industry holds an important place in Florida, as it commands a steady income and is a valuable aid in maintaining soil fertility. The basic principles taught in the College are applicable to all parts of America, altho special instruction is given for Florida conditions.

ANIMAL HUSBANDRY Aa.—*Elements of Animal Husbandry.* —Types and breeds of farm animals, with some judging practice; principles of breeding, feeding and management of livestock. *(Short Courses and Practice High School; 3 hours.)*

ANIMAL HUSBANDRY Bb. — *Elements of Dairying.* — The dairy industry: the production and handling of milk, butter-making on the farm, composition and testing of dairy products,

with laboratory practice. *(Short Courses, Vocational, and Practice High School; 3 hours.)*

ANIMAL HUSBANDRY I*b*.—*Types and Breeds of Animals.*—Types and classes of farm animals; leading breeds of horses, mules, cattle, sheep, and swine; practice in score-card and comparative judging. Animals owned by the College will be studied, and occasional trips made to nearby stock farms and stables. *(Freshman year; 4 hours.)*

ANIMAL HUSBANDRY II*a*.—*Animal Feeding.*—Composition of plants and animals; digestion and assimilation; feeding standards and balanced rations. Feeding methods for different classes of animals. *(Sophomore year; 2 hours.)*

ANIMAL HUSBANDRY III*b*.—*Animal Breeding.*—Principles underlying the breeding of animals, including heredity, variation, selection, environment; foundation and management of a breeding business. *(Sophomore year; 2 hours.)*

ANIMAL HUSBANDRY IV*a*.—*Beef Production.*—Practical methods in beef production: selection, feeding, and management of beef cattle; finishing and marketing; slaughtering and packing. Consideration of same subjects in mutton production. *(Sophomore or Junior year; 2 hours.)*

ANIMAL HUSBANDRY V*b*.—*Swine Production.*—Location and equipment of a hog farm, breeds of swine suited to the South; growing feeds for grazing and fattening; feeding and managing the herd; marketing and slaughtering, curing meats on the farm. *(Sophomore or Junior year; 2 hours.)*

ANIMAL HUSBANDRY VI*a*.—*Animal Conformation.*—Detailed study and measurement of market types and classes of animals; advanced stock-judging and show-ring practice at county and state fairs. *(Elective; 2 hours.)*

ANIMAL HUSBANDRY VII*b*.—*Breeding History.*—Advanced work in history of breeds, tabulation of pedigrees, line breeding, and advanced register methods. *(Elective; 2 hours.)*

ANIMAL HUSBANDRY VIII*b*.—*Animal Nutrition.*—Review of latest books on nutrition of animals, by Armsby, Henry, Kellner, and others. *(Elective; 2 hours.)*

ANIMAL HUSBANDRY IX*a*.—*Animal Industry Seminar.*—Historical review of the livestock industry and its relation to agriculture; preparation of articles on local problems; reports on current literature. *(Elective; 2 hours.)*

DAIRYING

DAIRYING I*a*.—*Dairy Products.*—Secretion, composition, properties of milk; testing milk and its products; methods of creaming; use of cream separators; manufacturing butter, cheese, etc. *(Sophomore or Junior year; 3 hours.)*

DAIRYING II*b*.—*Dairy Farming.*—Locations suitable for dairy farming; construction of sanitary barns, dairy houses, silos; selection of breeds, feeding and management of herd, testing and herd records; pastures, soiling crops, silage; marketing products. *(Sophomore or Junior year; 3 hours.)*

DAIRYING III*b*.—*Milk Inspection.*—Methods of producing sanitary milk, operation of county and city milk plants; state and municipal dairy laws; work of city milk inspector, score-card practice with dairy herds and milk depots. *(Elective; 3 hours.)*

DAIRYING IV.—*Dairy Manufactures.*—Advanced work in making butter, cottage and Cheddar cheese, fermented milks, ice-cream and other market products; creamery management and accounting. *(Elective; 2 hours. Not offered during 1920-1921.)*

POULTRY HUSBANDRY

POULTRY HUSBANDRY I*b*. — *Farm Poultry.* — Value of poultry industry, the leading types and breeds of poultry, location and construction of poultry houses, feeding and management for egg and meat production, rearing of chicks on the farm. *(Sophomore year; Vocational and Short Courses; 3 hours.)*

POULTRY HUSBANDRY II*b*.—*Incubation and Brooding.*—Natural and artificial incubation, development of chick in the egg, artificial brooding and natural raising of chicks, feeding and management to feathering stage; use of modern apparatus and appliances of different sizes and types. *(Sophomore or Junior year; 2 hours.)*

POULTRY HUSBANDRY III*b*.—*Poultry Management.*—Feeding for growth, egg and meat production; management and care of the flock, keeping records and accounts, marketing and storing products, disinfection and treatment of diseases and parasites. *(Sophomore or Junior year; 2 hours.)*

POULTRY HUSBANDRY IV*b*.—*Poultry Breeding and Judging.*—Principles underlying the handling of breeding pens and flocks, trap-nest records, selection and mating for color and

other purposes; methods of preparing birds for show, rules of exhibitions, practice in judging, with standard of perfection. *(Junior or Senior year; 2 hours.)*

VETERINARY SCIENCE

Professor Shealy

The aim of this department is to provide training which will enable students to detect diseases more readily and to understand their seriousness, and to become familiar with simple methods of treatment and means of eradication and prevention. All students interested in stockraising will find this training helpful. The courses also form a good foundation for students wishing to enter the profession of veterinary medicine.

VETERINARY SCIENCE I*b*.—*Veterinary Elements.*—Elementary anatomy and physiology of the domestic animals; causes and symptoms of common diseases of animals; methods of prevention, disinfection, and sanitation. Simple surgical operations, occasional clinics. *(Sophomore year; 3 hours.)*

VETERINARY SCIENCE II. — *Veterinary Anatomy and Physiology.*—Anatomy, including the skeleton, articulations, muscles, large blood-vessels and nerves, and internal organs; physiology, including circulation, respiration, digestion, and absorption; also the skin, the body excretions, the nervous system, and the special senses. *(Junior year; 3 hours.)*

VETERINARY SCIENCE III.—*Diseases of Farm Animals.*—Causes, symptoms, treatment, and prevention of common diseases of farm animals. Special attention given to contagious diseases, such as tuberculosis, hog cholera, contagious abortion, Texas fever, and rabies; sanitation following contagious diseases; technic of holding and study of findings of post-mortems. Clinic of at least 2 hours will be held one afternoon of each week. The use of serum and virus in the control of hog cholera will be demonstrated. *(Prerequisite: Veterinary Science II; Senior year; 3 hours.)*

VETERINARY SCIENCE IV*a*.—*Veterinary Hygiene and Farm Sanitation.*—Wholesome water, sources of water, impurities found in water; wholesome food, diseases caused by unwholesome food; pure air, impurities of air and diseases produced by them, ventilation, disposal of excreta; disposal of carcasses; disinfection, agents employed; sanitation following infectious diseases; hygiene of breeding animals. *(Elective; 2 hours.)*

VETERINARY SCIENCE V*b*.—*Parasitology*.—Common parasitic diseases of animals; life-history of parasites producing disease; symptoms of diseases, means of eradication and control of parasites. Lantern slides and natural specimens are used. *(Elective; 2 hours.)*

AGRICULTURAL JOURNALISM

Miss Vinson

AGRICULTURAL JOURNALISM I.—Principles of agricultural journalism; laboratory work in gathering and writing news, reading copy, editing. Students prepare copy for agricultural press. *(Junior or Senior year; 3 hours.)*

HORTICULTURE AND ECONOMIC BOTANY

Professor Floyd Assistant Professor Cody

In a subtropical climate unusual opportunities for the study of horticulture are presented. The wonderful variety of plants, the peculiar problems involved in their growth and development, and the accomplishments of those who have given time and labor to the solution of those problems, offer inviting fields for study and experiment. Both the practical and the esthetic tendencies may be cultivated.

The department with its orchard, garden, laboratory, and library, offers fine opportunity for instruction, experiment, and research.

HORTICULTURE I. — *Plant Propagation.* — Propagation by means of division, cutting, layering, budding, and grafting; seed selection, storing, and testing; and the fundamental physiological processes; practice in propagating common fruits, flowers, and shrubs. *(Freshman year; 2 hours.)*

HORTICULTURE II. — *Trucking.* — Vegetables adapted to Florida, seasons in which they are grown, cultural methods, fertilizing, irrigating, packing, and marketing. *(Sophomore year; 2 hours.)*

HORTICULTURE III*b*.—*Floriculture*.—The growing of flowers upon the home grounds, pot plants, greenhouse crops and their cultural requirements, including ventilation, watering, and heating. *(Sophomore year; 2 hours.)*

HORTICULTUBE IV*a*.—*Citrus Culture*.—Soils suitable for citrus groves, their preparation, planting, cultivation, fertilization, selection of varieties, and the use of cover crops. *(Junior year; 3 hours.)*

HORTICULTURE V*b*.—*Citrus Harvesting, Marketing and Judging*.—Methods of picking, handling, washing, drying, packing, and shipping citrus fruits; identification of the leading commercial varieties and score-card judging. *(Junior year; 2 hours.)*

HORTICULTURE VI*a*.—*Insects and Diseases of Citrus Fruits*. —Injurious insects and important physiological and fungus diseases and their treatment. *(Prerequisite or corequisite, IVa; Senior year; 3 hours.)*

HORTICULTURE VII*a*.—*Deciduous and Subtropical Fruits*. —Peaches, pears, persimmons, grapes, pecans, guavas, avocados, mangoes, etc.; varieties adapted to the State, their planting, cultivation, diseases, insect enemies. *(Junior year; 3 hours.)*

HORTICULTURE VIII*b*.—*Plant Breeding*.—Cross pollination and hybridization of plants, improvement by selection, breeding for special qualities, methods of successful breeders; field work. *(Prerequisites: Ia and Botany I; Junior year; 3 hours.)*

HORTICULTURE IX*b*.—*Landscape Gardening*.—The principles of landscape gardening, suitable plants, improvement of home, school, and public grounds. *(Senior year; 2 hours.)*

HORTICULTURE X*a*.—*General Forestry*.—The principles of forestry, forest cropping, protecting the home wood lot, use of Florida woods, varieties of timber trees, and the influences of the forests on other industries of the State. *(Junior or Senior year; 3 hours.)*

HORTICULTURE XI*b*.—*Forest Mensuration*.—The determination of the age and volume of trees and stands. Estimating standing timber by the hypsometer, dendrometer, and other instruments. Principles of volume and yield; tables and log rules. *(Prerequisite: IXa; Junior or Senior year; 3 hours.)*

HORTICULTURE XII*a*.—*The Evolution of Cultivated Plants*. —Evolution as applied to the modification of cultivated plants, particularly the fruits. *(Prerequisite: VIIIb; Senior year; 2 hours.)*

BOTANY I*b*.—*Economic Botany*.—The relationship, habits, characteristics, and environmental relations of the important crop plants, with laboratory study of important types. *(Sophomore year; recitations 2 hours, laboratory 2 hours.)*

BOTANY II*a*.—*Grasses and Weeds*.—The relationship, characteristics, and economic importance of grasses and weeds.

Methods of introduction of weeds, and how to combat them; a study of their seeds, so that they may be recognized. *(Junior year; recitations 2 hours, laboratory 2 hours.)*

BOTANY III*b*.—*Morphology of Thallophytes*.—Designed for students desiring advanced work on algae and fungi—with reference to classification, differentiation, and morphology. Fresh-water algae will be studied from living specimens in the laboratory, and students will make permanent microscopic slides of the species studied. Many of the marine algae will be studied from preserved specimens. The study of the fungi prepares for Plant Pathology. The field work will consist of collecting and identifying the fungus flora of the vicinity. *(Junior year; recitation 1 hour, laboratory 4 hours.)*

BOTANY IV*a*.—*Morphology of the Higher Plants*.—A study of the Bryophytes, Pteridophytes, and Spermatophytes, with reference to classification, morphology, and differentiation. In the field and in the laboratory the student will learn to recognize all the common liverworts, mosses, ferns, fern allies and conifers, and the more important groups of the Monocotyledons and Dicotyledons, especially those of economic importance. *(Senior year; recitation 1 hour, laboratory 4 hours.)*

OTHER DEPARTMENTS

Descriptions of other subjects that may be taken by students in the College of Agriculture can be found by reference to the Index.

MIDDLE COURSE IN AGRICULTURE

For those who cannot meet the requirements for entrance to the Freshman class, or who may not wish to pursue the Four-Year Course and yet desire training in agriculture, a two-year curriculum is offered. This is not designed to supplant or be a substitute for the regular curriculum outlined above.

ENTRANCE REQUIREMENTS.—To be admitted, students must be at least sixteen years of age. The scholastic requirements, which are equivalent to the work completed in the tenth grade or Junior high schools, are:

Chemistry	1 unit
English	2 units
Mathematics	2 units
History	1 unit
Elective	2 units
	8 units

TITLE.—The title of Graduate in Farming (G.F.) is conferred upon students who satisfy the entrance requirements and complete the Middle Course.

CERTIFICATE.—Those unable to satisfy the entrance requirements or not caring to take all the required subjects of the Middle Course, may take a two-year course, made up of such subjects as they are prepared for, and will be awarded a certificate for the work done.

MIDDLE COURSE

Leading to the Title of Graduate in Farming

First Year

NAMES OF COURSES	NATURE OF WORK	*HOURS PER WEEK	
Agricultural Engineering I	Farm Machinery	4	0
Agronomy I	Elements of Agronomy	2	2
Animal Husbandry I	Types and Breeds of Animals	0	4
Biology I*a*	General Biology	4	0
Biology II*b*	General Botany	0	4
Horticulture I	Plant Propagation	2	2
Elective		6	6
		18	18

Second Year

Agronomy II	Field Crops	3	0
Agronomy III	Forage Crops and Grasses	0	3
Agronomy IV	Fertilizers	0	3
Animal Husbandry II	Animal Feeding	2	0
Biology VI	Economic Zoology	3	3
Horticulture II	Trucking	2	2
Elective		8	7
		18	18

*The first column gives the hours per week for the first semester, the second column the hours per week for the second semester.

Elective Studies—Middle Course

Names of Courses	Nature of Work	Hours per Week
(First Semester)		
Agricultural Engineering II	Farm Motors	4
Agronomy V	Soil Technology	3
Agronomy VI	Farm Management	3
Animal Husbandry IV	Beef Production	2
Animal Husbandry VII	Breeding History	2
Biology XI*a*	General Bacteriology	3
Chemistry I	General Chemistry	5
Dairying I	Dairy Products	2
Horticulture IV	Citrus Culture	3
Horticulture VI	Insects and Diseases of Citrus Fruits	3
Horticulture VII	Deciduous and Subtropical Fruits	3
Horticulture X	Forestry	3
Veterinary Science II	Veterinary Anatomy and Physiology	3
Veterinary Science III	Diseases of Animals	3
Veterinary Science IV	Hygiene and Sanitation	2
(Second Semester)		
Agric'l Engineering III	Drainage and Irrigation	4
Agric'l Engineering IV	Farm Buildings	4
Agricultural Journalism		3
Agronomy IV	Fertilizers	3
Agronomy V	Soil Technology	3
Agronomy VII	Farm Management	3
Agronomy IX	Rural Law	2
Animal Husbandry III	Animal Breeding	2
Animal Husbandry V	Swine Production	2
Biology X	Plant Pathology	3
Biology XII*b*	Agricultural Bacteriology	3
Chemistry I	General Chemistry	5
Horticulture III	Floriculture	2
Horticulture V	Citrus Harvesting and Marketing	2
Horticulture VIII	Plant Breeding	2
Horticulture IX	Landscape Gardening	2
Poultry Husbandry I	Farm Poultry	3
Poultry Husbandry II	Incubation and Brooding	2
Poultry Husbandry III	Poultry Management	2
Veterinary Science I	Veterinary Elements	3
Veterinary Science II	Veterinary Anatomy and Physiology	3
Veterinary Science III	Diseases of Animals	3

Note—This curriculum may, with the approval of the Dean and the consent of the instructors, be altered to suit the needs of individual students. Students shall choose from the elective studies, from other courses, or from the Practice High School of the Teachers College, a sufficient number to make a total of not less than eighteen nor more than twenty-three hours per week. All choice of electives must, furthermore, be submitted to the Dean.

ONE-YEAR COURSE IN AGRICULTURE

This course will meet the needs of those who can spend only one year at school. The only requirement for admission is a knowledge of the common-school branches. Certificates will be granted to those who complete the work.

Names of Courses	Nature of Work	Hours per Week
(First Semester)		
Agricultural Education I	Library Work	1
Agricultural Engineering I	Farm Machinery	4
Agricultural Engineering II	Farm Motors	4
Agric'l Engineering III	Drainage and Irrigation	3
Agronomy A	Elements of Agronomy	3
Agronomy I	Elementary Soils	2
Agronomy II	Field Crops	3
Animal Husbandry A	Elements of Animal Husbandry	3
Animal Husbandry II	Animal Feeding	2
Animal Husbandry IV	Beef Production	2
Botany II	Grasses and Weeds	3
Dairying I	Dairy Products	3
Horticulture I	Plant Propagation	2
Horticulture II	Trucking	2
Horticulture IV	Citrus Culture	3
Horticulture VI	Insects and Diseases of Citrus Fruits	3
Horticulture VII	Deciduous and Subtropical Fruits	3
*Military Drill		R
Veterinary Science II	Veterinary Anatomy and Physiology	3

Note—Students shall select not less than eighteen nor more than twenty-three hours per week, except on approval of the Dean, to whom all choice of studies must be submitted.

(Second Semester)		
Agricultural Education II	Agricultural Organizations	1
Agronomy B	Fertilizers	3
Agronomy I	Elementary Crops	2
Agronomy II	Fertilizers	3
Agronomy III	Forage Crops and Grasses	3
Agronomy IV	Fertilizers	3
Agric'l Engineering IV	Farm Buildings	4
Animal Husbandry I	Types and Breeds of Animals	4
Animal Husbandry III	Animal Breeding	3
Animal Husbandry V	Swine Production	2
Botany I	Economic Botany	3
Horticulture A	Elements of Horticulture	3
Horticulture I	Plant Propagation	2
Horticulture II	Trucking	2
Horticulture V	Citrus Harvesting, Markets, Judging	2
*Military Drill		R
Poultry Husbandry I	Farm Poultry	3
Poultry Husbandry II	Incubation and Brooding	3
Poultry Husbandry III	Poultry Management	3
Veterinary Science I	Veterinary Elements	3
Veterinary Science II	Veterinary Anatomy and Physiology	3

FOUR-MONTH COURSES IN AGRICULTURE

The work of each semester of the One-Year Course outlined above has been so planned as to form of itself a well rounded course of study which can be pursued to advantage by those unable to spend more than four months at the University. Each of these Four-Month Short Courses, one of

*Attendance upon Military Drill is required.

which begins on September 21, 1920, and the other on February 7, 1921, should appeal to farmers who wish to increase their productive power, to young men who expect to become farmers, and to those who are turning from other lines of work in order to obtain the advantages of country life.

Military Drill is not required of those who take only one of these courses, but is required of those who take both during the same scholastic year.

TEN-DAY COURSES FOR FARMERS

Beginning January 4, 1921; ending January 14, 1921.

The Farmers' Ten-Day Courses are especially suited to the needs of the following classes: Farmers of all ages who recognize their need for some training in scientific agriculture in order to render more effective the practical knowledge they have already gained; young men who are compelled to drop out of school and yet desire to devote a short time to special preparation for work upon the farm; city students who wish to fit themselves for farm life; colonists who wish information regarding Florida conditions and methods.

The laboratory equipment, the purebred livestock, and the farms will be available for instruction; the Agricultural Experiment Station will afford opportunity for observation and inquiry. Care has been taken to meet the needs of practical farmers. The courses will consist of lectures, laboratory work, and field observations and demonstrations in general field crops, soils, horticulture, animal husbandry, dairying, poultry, veterinary science, and agricultural engineering.

There are no age limits and no educational requirements for admission. No tuition fee is charged.

EXPENSES.—The necessary expenses for room and board will approximate $15.00.

CORRESPONDENCE COURSES

Correspondence Courses in Agriculture are offered under the General Extension Division. See page 162.

AGRICULTURAL MEETINGS

A large number of people interested in agriculture meet annually at the University. These find excellent accommodations and facilities better for their purposes than anywhere else in the State. Laboratories, classrooms, and exhibits, as

well as the growing crops, barns, and other equipment, are placed freely at their service.

The following meetings were held during the past year:

1. Tenth Annual Citrus Seminar, October 14-17.
2. Live-Stock Round Up, October 14-17.
3. Tractor and Farm Machinery Exhibit, October 14-17.
4. County Demonstration Agents, October 10-14.
5. Boys' Short Course in Agriculture, December 11-16.
6. State Convention of Farmers Educational and Cooperative Union, August 18-19.

AGRICULTURAL EXPERIMENT STATION

P. H. Rolfs, *Director*

Staff.—P. H. Rolfs, S. E. Collison, B. F. Floyd, J. M. Scott, C. D. Sherbakoff, H. E. Stevens, J. B. Thompson, J. E. Turlington, G. Umlauf, T. Van Hyning, S. L. Vinson, J. R. Watson.

Aim and Scope.—Agricultural experiment stations are institutions, founded by Congressional act, the purpose of which is to acquire and diffuse agricultural knowledge. From the enacting clause it is evident that Congress intended to establish in connection with every college and university receiving the benefits of the original "Land-Grant Act" an institution for purely investigational work.

The Florida Agricultural Experiment Station was founded in 1887 and has continued without interruption. Inasmuch as its funds are obtained from Federal sources, it must comply with the Federal law: Its income must be used for acquiring new and important knowledge in regard to crops and soils and no part can be expended, directly or indirectly, for teaching purposes or for holding Farmers' Institutes, and only five per cent for building or making repairs. In order to receive the benefits of the Adams fund, the Station must, before any money is spent in investigation, submit plans for proposed experiments to the U. S. Department of Agriculture for approval.

Advantages of Location.—The advantages of having the Agricultural Experiment Station at the University are obvious. At frequent intervals the investigators deliver popular and technical lectures, either to the student-body as a whole or to special clubs and local organizations. As the fields and orchards of the Station are used solely for experi-

mental purposes and as its laboratories are planned and conducted for research work, they contribute to the opportunities of the students for studying methods of scientific investigation. Some of those with special aptitude have an opportunity of assisting the specialists in charge.

Minor positions, such as those of laboratory assistant, are occasionally open and, whenever practicable, are given to graduates of the University. Such assistants are paid a small salary for half of their time and during the other half are free to take studies leading to higher degrees.

BUILDING.—See page 20.

LINES OF INVESTIGATION.—The lines of investigation carried on fall naturally into several departments: Horticulture, including the introduction, breeding, and propagation of plants; Animal Industry, including the study of feed crops, the effect of feeding certain crops to cattle and hogs, and the growing of feed and forage crops; Agronomy, including the breeding of cotton, corn, and other farm crops; Plant Pathology, including the study of plant diseases produced by fungi and bacteria; Plant Physiology, including the study of plants as affected by fertilizer and soil conditions; Chemistry, including the study of fertilizers and soils, especially as to their effects on plants; Entomology, including the study of insecticides and insects and their parasites. The work of the Station is, however, not sharply divided among these different departments. The Staff formulate what are known as projects, the work on which is continued regardless as to whether its ramifications take it into one or another department, and not infrequently two or more departments are engaged in the solution of the same project—in other words, the work is limited only by the abilities of the Staff and the resources of the institution.

PROJECTS.—Some of the more important projects are:

1. The study of soils and fertilizers in their relation to plant growth and development.
2. The study of certain citrus diseases: Gumming, Melanose, Canker, Anthracnose, Blight, and Stem-End Decay.
3. The study of vegetable diseases: cantaloupe blight, bacterial diseases of cucumbers and other vegetables, and seed-bed diseases affecting Lettuce, Celery, Eggplant, and Tomatoes.
4. The study of Pineapple wilts.
5. The study of Velvet-Bean caterpillar.
6. The control of Root-Knot.
7. The control of Camphor and other thrips and of Scale Insects.
8. Studies in the effect upon citrus trees of different quantities and combinations of nutrient elements.

9. The trying out of different forage crops for all kinds of livestock.
10. Experiments with different kinds of silage with a view to determining the best for the use of the Florida stock raiser.
11. Experiments with the dairy herd. Studying the value of velvet beans, peanut meal and cottonseed meal for milk production.
12. Comparison of the most economical rations for pork production.
13. Studying the effect of peanut meal on the quality of pork.
14. Studying the effect of velvet beans as a feed for brood sows.
15. Value of velvet beans and peanut meal for beef production.
16. Studying the fertilizers for the maximum yield of Japanese cane.
17. Studies in the effect of different fertilizing material on the production of Irish potatoes.
18. Cooperative experiments with farmers in various sections of the State to ascertain the value of certain new forage crops.
19. Testing the native and extensively introduced wild grasses to determine their possible value as forage.
20. Study of diseases and insects of truck crops.

PUBLICATIONS.—The publications fall into three classes: Bulletins, Press Bulletins, and Annual Reports. The Bulletins contain more or less complete results of some particular investigation. At least four are issued annually; one hundred and fifty-four have appeared. The Press Bulletins are prepared in order to bring to the citizens of Florida information connected with the investigations that are being carried on, before all the work necessary for the publishing of a Bulletin has been completed. They are issued at short intervals, three hundred and seventeen having already appeared. The Annual Reports contain a brief statement of the work done, as well as of the expenditure of funds. Twenty-nine have been published.

All of these publications are distributed free upon request.

AGRICULTURAL EXTENSION DIVISION

P. H. ROLFS, *Director*

STAFF.—A. With headquarters in Gainesville: P. H. Rolfs, W. H. Black, R. W. Blacklock, H. G. Clayton, G. L. Herrington, E. W. Jenkins, A. H. Logan, C. K. McQuarrie, N. W. Sanborn, J. M. Scott, A. P. Spencer, J. B. Thompson, S. L. Vinson.

B. With headquarters in Tallahassee:

Miss S. W. Partridge, *State Agent.*
Miss H. B. Layton, *Assistant State Agent.*
Miss Agnes I. Webster, *District Agent.*
Miss Lucy Cushman, *District Agent.*
Miss Mae Morse, *Home Dairy Specialist.*
Miss Minnie Floyd, *Home Poultry Specialist.*
A. A. Turner, *Local District Agent (Colored).*

COUNTY AGENTS

County	Name	Address
Alachua	C. D. Gunn	Gainesville
Bay	G. E. Meade	Panama City
Bradford	J. O. Traxler	Starke
Brevard	K. E. Bragdon	Titusville
Citrus	R. J. Dorsett	Inverness
Columbia	H. A. McDonald	Lake City
Dade	J. S. Rainey	Miami
De Soto	J. M. Tillman	Arcadia
Duval	W. L. Watson	Jacksonville
Escambia	J. L. Smith	Pensacola
Hernando	Jas. Mountain	Brooksville
Hillsborough	R. T. Kelley	Plant City
Holmes	J. J. Sechrest	Bonifay
Lake	M. M. Javens	Tavares
Lee	J. M. Boring	Ft. Myers
Leon	R. I. Matthews	Tallahassee
Liberty	A. W. Turner	Bristol
Madison	C. E. Matthews	Madison
Manatee	W. R. Briggs	Bradentown
Marion	W. A. Sessoms	Ocala
Okaloosa	R. J. Hart	Laurel Hill
Orange	C. D. Kime	Orlando
Osceola	R. T. Weaver	Kissimmee
Palm Beach	R. A. Conkling	West Palm Beach
Pasco	F. G. Merrin	Dade City
Polk	Wm. Gomme	Bartow
Putnam		Palatka
St. Johns	K. W. Lord	St. Augustine
St. Lucie	A. Warren	Ft. Pierce
Santa Rosa	R. T. Oglesby	Milton
Seminole	C. M. Berry	Sanford
Suwanee	D. A. Armstrong	Live Oak
Taylor	L. R. Moore	Perry
Volusia	W. E. Dunaway	DeLand
Walton	J. W. Mathison	DeFuniak Springs

HOME DEMONSTRATION AGENTS

County	Name	Address
Alachua	Miss Irene Randall	Gainesville
Alachua (Ass't)	Mrs. Susie Sapp Crofton	Gainesville
Bradford	Mrs. Flora Clower Scott	Starke
Broward	Mrs. Adrienne Peay	Ft. Lauderdale
Calhoun	Mrs. Grace F. Warren	Blountstown
Dade	Miss Lal Cunningham	Miami
Dade (Ass't)	Mrs. Nellie A. Bush	Goulds
De Soto	Miss Connie Devane	Arcadia

County		Name	Address
Duval	Miss	Clarine Hoyt	1641 Dellwood Ave. Jacksonville
Escambia	Miss	Margaret Cobb	Pensacola
Gadsden	Miss	Ruby McDavid	Hinson
Hernando	Mrs.	Estelle Colvertson	Brooksville
Hillsborough	Miss	Edith Cole Young	Tampa, City Hall
" (Ass't)	Mrs.	Maude McRae	Plant City
Jefferson	Miss	Posey Taylor	Lloyd
Lee	Miss	Margaret Purleigh	Ft. Myers
Leon	Mrs.	Mary S. Russell	Tallahassee
Madison	Miss	Edna Smith	Madison
Manatee	Mrs.	Ivie Turnbull	Bradentown
Okaloosa	Miss	Harriette Hawthorne	Crestview
Orange	Mrs.	Nellie Taylor	Orlando
Osceola	Miss	Albina Smith	Kissimmee
Palm Beach	Miss	Elizabeth Hopkins	West Palm Beach
Pasco	Mrs.	John Tilden	Dade City
Pinellas	Miss	Hazel Carter	Largo
Polk	Miss	Lois Godbey	Bartow
Putnam	Miss	Floresa Sipprell	Palatka
St. Johns	Miss	Anna E. Heist	St. Augustine
St. Lucie	Miss	Lula Chriesman	Ft. Pierce
Santa Rosa	Miss	Winnie Warren	Milton
Suwanee	Miss	Alice Dorsett	Branford
Taylor	Mrs.	Brant Mills	Perry

COOPERATIVE EXTENSION WORK

The Agricultural Extension Division, having in view the welfare of the farm family as a whole, supports a system of practical education. It teaches the results of scientific experiments in farm crops and livestock, in orchards and gardens, as well as gives practical information gained by experience. It offers farm women instruction in home economics—practical instruction in the home or at a community center; scientific instruction thru special courses at the State College for Women. It trains the boys and girls of farm homes thru corn, pig, canning, and preserving clubs and thru short courses at the University or the State College for Women.

A synopsis of Cooperative Demonstration work includes:

(a) Demonstration Agents:
  (1) Schools for Agents.
  (2) Group Meetings.
(b) Boys' Agricultural Clubs:
  (1) Corn Clubs.
  (2) Pig Clubs.
  (3) Peanut Clubs.
  (4) Calf Clubs.

(c) Home Demonstration work:
  (1) Girls' Canning Clubs.
  (2) Girls' Poultry Clubs.
  (3) Home Demonstration Clubs.
  (4) Home Dairying.
  (5) Club Contests.

(d) Meetings:
  (1) Farmers' and Growers' State Meetings.
  (2) Women's State Meetings.
  (3) County Agents' Meetings.
  (4) Home Demonstration Agents' Meetings.
  (5) Boys' State Meetings.
  (6) Girls' State Meetings.
  (7) County Meetings.

(e) Cooperation with Bureaus of U. S. Dept. of Agriculture:
  (1) Hog-Cholera Educational work.
  (2) Beef and Mutton Production.
  (3) Poultry Production.
  (4) Forage Crops.

(f) Farm and Home-Makers Clubs:
  (1) Club work for Colored Boys and Girls.
  (2) Demonstration work for Colored Farmers.
  (3) Demonstration work in Canning and Gardening Clubs for Colored Girls and Women.

SMITH-LEVER ACT.—In accordance with the terms of the Smith-Lever Act, which became effective on July 1, 1914, Agricultural Extension Work is carried on cooperatively by the U. S. Department of Agriculture and the State of Florida. The purpose of the Act may be seen from the following quotation:

"That cooperative agricultural extension work shall consist of the giving of instruction and practical demonstration in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications, and otherwise; and this work shall be carried on in such a manner as may be mutually agreed upon by the Secretary of Agriculture and the State agricultural college or colleges receiving the benefits of this act."

LIBRARY
University of Florida

During the period of the war, Congress appropriated, in addition to the Smith-Lever funds, large sums for the purpose of conserving and stimulating agricultural production. These appropriations were discontinued at the close of the fiscal year ending June 30, 1919. Congress, however, passed the Smith-Lever Supplementary Act appropriating an additional sum, to be used principally for the employment of County Cooperative and Home Demonstration Agents.

By the terms of the Smith-Lever Act the College of Agriculture receives $10,000 a year, and an additional sum which increases annually provided that the State appropriates an equal amount. The Legislature has enacted laws enabling the State to secure the benefits of both the original Smith-Lever

and the Supplementary Act, the total amount of State and Federal funds consequently available for the fiscal year ending June 30, 1920, being $71,625.99.

The College is also permitted by the above-mentioned legislation to enter into agreement with the various bureaus of the U. S. Department of Agriculture, whereby the Department provides specialists in livestock, dairying, fruit culture, trucking, and in home economics, who, working under the Director of Extension Work and with County and Home Demonstration Agents, thus coordinate the activities of the Bureaus with those of the Agricultural Extension Division of the University.

ORGANIZATION.—The organization for Florida consists of:

The *Director,* the chief executive in shaping and directing policies and in arranging cooperation with other agencies.

The *Vice-Director,* who supervises the work carried on at headquarters and aids in directing that done in the field. He is charged with the direction of cooperative specialists.

The *State Agent,* who has direct supervision of County Agents. His duties are outlined by the Chief of the Farmers' Cooperative Work, Washington, D. C., and the Director of the Agricultural Extension Division.

The *State Home Demonstration Agent,* having general supervision of the Home Demonstration Work.

District Agents, who visit regularly the County and Home Demonstration Agents, advising them and planning their work. The State is divided into three districts: Central and East Florida, North and West Florida, and South Florida. The County Home Demonstration work is supervised by two District Agents, acting under the State Agent.

Boys' Agricultural Club Agents, in general charge of the Corn, Pig, Calf, and other Clubs organized by County Agents.

The *Poultry Club Agent,* who directs the Women's and Girls' Poultry Clubs organized by County Home Demonstration Agents.

The *Home Dairying Agent,* who endeavors to stimulate a greater production of sanitary milk and good butter and to teach the proper dietary use of dairy products.

Specialists from the Bureaus of the U. S. Department of Agriculture, assigned to work with the Extension Division. They are now engaged in studying the most important agricultural problems that confront farmers.

County and *Home Demonstration Agents,* who visit farms and homes to enlist cooperation and to help in carrying out better methods of farming and home economics, to direct demonstration work in crops and livestock and home economics, and to organize Farmers' Cooperative Associations and Rural Clubs. Each County Agent has a centrally located office, usually at the county seat, where bulletins, farm journals, and farm records are kept and where he spends one day each week for consultations.

Counties desiring to cooperate are required to defray a part of the expense due to the employment of County Agents—the maximum appropriation to a county being $600 for a County Demonstration Agent and $500 for a Home Demonstration Agent.

SCHOOLS FOR DEMONSTRATION AGENTS. — The County Agents are assembled annually for instruction and conference at the University, the Home Agents at the State College for Women. The programs consist of lectures and demonstrations by members of the Staffs of the College of Agriculture, the Experiment Station, and of the Extension Division and speakers from other states and from the U. S. Department of Agriculture.

GROUP MEETINGS.—County Agents are assembled in groups of five or six on well-managed farms to study the best practices and to secure information from the managers.

BOYS' AGRICULTURAL CLUBS

Agricultural clubs are organized among the boys on the farms for the purpose of teaching them by practical demonstrations better methods of farming. In 1919 there were clubs in 50 counties, with a total membership of 3,100.

In order to touch the problems of the different sections, the following clubs are conducted: corn, peanut, sweet-potato, sugar-cane, pig, beef-calf, and dairy-calf.

Corn Clubs are organized in 49 counties, with a membership of 1,098. The average yield of corn per acre in 1919 was 35.7 bushels, costing 48 cents a bushel to produce.

Peanut Clubs are organized in 37 counties, with a membership of 173. Altho many boys let the hogs harvest the crop and therefore do not know the exact yield, some few report 50 or more bushels per acre.

Sweet-Potato Clubs were first organized in 1919. They are, especially in Santa Rosa and Manatee counties, assisting materially in increasing yields and standardizing marketable varieties.

Sugar-Cane Clubs were intended mainly for the southern counties, altho some northern and western counties are also becoming interested in them. Each club member grows one-eighth acre of cane.

Pig Clubs are organized in 49 counties, with a membership of 1,706. Each member raises one or more purebred hogs. The pig-club boys have not only greatly assisted in improving the swine in Florida, but have also been well paid for their efforts. The first few years of their work were necessarily spent in improving the breeding stock; now that blood lines are so much improved, many club members are entering feeding contests.

Beef-Calf Clubs are being conducted in some counties in order to assist in improving the breeds of beef cattle. Each member raises one purebred beef animal. So successful were the boys in 1919 that the work promises soon to become valuable.

Dairy-Calf Clubs are being organized in rural communities as well as in dairy-farming localities. In 1919 about 40 purebred calves were distributed among club boys; other boys are planning soon to join in the work.

MEMBERS.—Any boy between the ages of 10 and 18 years living on or having access to a farm, is eligible to membership. There are no fees, and the members have the assistance of the County and State Boys' Club Agents.

CONTESTS.—Contests between the members in each county are held in the early fall. Each contestant makes an exhibit, or enters his stock, together with a complete report of his work. Valuable prizes are usually awarded.

The State Contest is held at the State Fair in Jacksonville. The best results from each county are shown; and prizes are awarded as in county contests.

BOYS' SHORT COURSE.—Business men and agricultural organizations annually give successful boys from as many counties as possible a free trip to the University to attend the Short Course in Agriculture. This has done much to stimu-

late greater interest in club work and has caused many boys to enter the College of Agriculture for a four-year course.

HOME DEMONSTRATION WORK

CLUBS.—*Girls' Canning Clubs.*—Girls between the ages of ten and eighteen are eligible for membership. Each member is required, under the supervision of the County Home Demonstration Agent, to grow one-tenth of an acre of vegetables.

Girls' Poultry Clubs.—Successful canning-club girls are organized by the County Home Demonstration Agents into clubs to study poultry raising, procure purebred stock, and to handle and market profitably the products. Special effort is made to teach the advantages of collective selling.

Home Demonstration Clubs take up the general home problems of the farm and community. Dwellings are screened, labor-saving devices installed, and provisions made for a better water supply and sewage disposal. The clubs study, furthermore, the purpose and necessity of recreation and entertainment.

HOME DAIRYING.—Individuals and groups are taught the proper dietary use of dairy products, as well as how to improve and increase the supply.

CONTESTS.—County contests are held, frequently in connection with those of the boys' clubs, at the close of the year's work. The exhibits are judged and record books examined; awards are based on quality, record, and on financial showing. The prizes consist of scholarships to short courses at the Women's College, money, or merchandise. The State contest is held at the State Fair at Jacksonville.

FARMERS' AND GROWERS' MEETINGS

Farmers' and Home Demonstration meetings are held, generally at the request of a resident, in counties having County and Home Demonstration Agents. Speakers are obtained from the State colleges or from other organized agencies working for the development of agriculture. On special occasions, particularly for evening lectures, stereoptican slides and moving picture films are used. Meetings for a definite purpose are always considered the best.

CITRUS SEMINAR-LIVESTOCK ROUNDUP

The Tenth Annual Citrus Seminar and the Fourth Annual Livestock Roundup were held at the University, October 14-17.

The two were combined, as many fruit growers are also interested in livestock and general farming. Addresses twenty to forty minutes in length were made on subjects of special interest. The Staffs of the College of Agriculture, Extension Division, and Experiment Station were called upon for lectures on their particular work. Other institutions represented were the U. S. Department of Agriculture, the State Department of Agriculture, the Livestock Sanitary Board. Valuable papers were presented by farmers and growers of Florida.

TRACTOR AND FARM MACHINERY EXHIBITS.—An exhibit representing the output of thirty firms was placed on the University campus for inspection. An interesting feature was the tractor demonstration. The companies making exhibits of spraying machinery, for instructional purposes, sent representatives to operate it.

AGENTS' ANNUAL MEETINGS

The County Agents' Annual Meeting was held, under the direction of the State Agent, at Gainesville, October 10-14, just before the Citrus Seminar and Livestock Roundup. The topics of discussion were mainly of a business nature, the conferences and discussions held applying particularly to the Cooperative Demonstration work. The Experiment Station and College Staffs assisted in the program.

The Home Demonstration Agents were assembled at the State College for Women, Tallahassee, for conference and instruction, and an appropriate program was prepared for their benefit.

As both these meetings are of general interest, the public is always invited to attend.

PUBLICATIONS

Bulletins No.	Title	Edition
13.	Hog Cholera	20,380
14.	Sugar Cane	20,436
15.	Cotton	15,400
16.	Boys' Agricultural Clubs	20,600
17.	Hog Pastures and Feeds	7,500
18.	A Spray Schedule for Citrus	12,229
19.	Farm and Home Makers' Clubs	5,000
20.	Self-Feeder for Pork Production	20,590
Circulars No.		
6.	Farm Labor	10,000
7.	Club Work in Taylor County	6,000

Poster No.
5. Have You a Cow 2,000
1919 Campaign for Food, Feed, and Forage 5,000
Annual Report 4,000
Agricultural News Service, 52 issues, 425 copies each week.

SPEAKERS AT AGRICULTURE MEETINGS

From College of Agriculture:

A. A. Murphree, P. H. Rolfs, R. W. Blacklock, L. Cantrell, O. W. Caswell, H. G. Clayton, S. E. Collison, H. W. Cox, Miss Lucy C. Cushman, B. F. Floyd, Miss Minnie Floyd, W. L. Floyd, Miss Lois Godbey, W. Gomme, C. D. Gunn, G. L. Herrington, S. W. Hiatt, E. W. Jenkins, R. T. Kelley, Miss H. B. Layton, A. H. Logan, H. S. McLendon, C. K. McQuarrie, R. I. Mathews, Miss S. W. Partridge, Mrs. W. Roberts, J. M. Scott, C. D. Sherbakoff, Miss A. Smith, Miss E. Smith, A. P. Spencer, H. E. Stevens, J. E. Turlington, Mrs. G. Warren, Miss W. Warren, C. H. Willoughby.

Partial list of other speakers:

C. K. Allen, Sopchoppy; A. P. Anthony, Jacksonville; Dr. J. M. Baxter, Marianna; E. S. Burleigh, Tavares; Dr. W. F. Blackman, Winter Park; Sister E. Carlotta, St. Augustine; W. D. Carn, Ocala; Gov. S. J. Catts, Tallahassee; H. J. Dame, Inverness; Dr. J. G. Dupuis, Lemon City; R. L. Goodwin, Fort Pierce; R. E. Hall, Miami; B. L. Hamner, Valrico; K. Hawkins, Washington, D. C.; H. H. Hume, Glen Saint Mary; L. R. Hodges, Jacksonville; Mrs. L. L. Howard, Gainesville; J. E. Ingraham, St. Augustine; Wm. James, Pensacola; Mrs. W. S. Jennings, Jacksonville; Dr. B. Knapp, Washington, D. C.; W. A. McRae, Tallahassee; Dr. E. M. Nighbert, Jacksonville; Dr. E. C. Pace, Marianna; Karl Robinson, Montverde; L. M. Rhodes, Jacksonville; Capt. R. E. Rose, Tallahassee; Dr. J. H. Ross, Tampa; H. H. Simmons, Jacksonville; J. B. Simonton, Micanopy; R. W. Storrs, DeFuniak Springs; W. M. Traer, Jacksonville; S. W. Westbrook, Pensacola.

COLLEGE OF ENGINEERING

J. R. BENTON, *Dean*

FACULTY.—J. R. Benton, E. C. Beck, A. P. Black, R. E. Chandler, H. S. Davis, W. H. Drane*, J. M. Farr, W. S. Higgins, J. M. Leake, J. L. McGhee, W. S. Perry, T. M. Simpson, T. D. Smith, A. J. Strong, R. W. Thoroughgood†, E. S. Walker, B. Ward.

GENERAL STATEMENT

AIM AND SCOPE.—It is the aim of the College of Engineering to furnish such training as will be useful to its graduates in the profession of engineering. Its courses of instruction are similar to those of other American engineering schools of college grade; its graduates are prepared to fill such positions as are usually allotted to young engineers.

Scholastic training alone cannot make a competent engineer, any more than it can make a competent physician or lawyer. It can, however, fit a man to enter the profession of engineering; and it is an important element in ultimate success in that profession.

The work of the College is divided among courses of study of the following types: (1) Courses in the sciences fundamental to the practice of engineering, of which mathematics, chemistry, and physics are the most important; (2) courses in various branches of engineering practice in which these sciences are applied, such as structural, steam and gas, or electrical engineering; (3) courses in practical work, such as mechanic arts, drafting, or surveying; and (4) courses contributing primarily to general culture, such as those in English.

BUILDINGS AND EQUIPMENT.—The headquarters and principal building of the College is Engineering Hall, described on page 20. A description of the equipment is to be found on page 25.

Provision is made for shop work in a large wing to Engineering Hall, as well as by temporary use of a separate building. (See page 19.)

Part of the work of the College of Engineering coincides

*From Oct. 9, 1919 to Feb. 7, 1920. †Till Oct. 9, 1919.

with that of the other colleges of the University; for such work the same classrooms and laboratories are utilized.

ADMISSION.—See pages 39 to 45, inclusive.

BENTON ENGINEERING SOCIETY.—Weekly meetings of this society are held, at which each member in turn presents a paper on some topic of interest to engineering students. Membership is strongly urged upon every student in the College.

EXPENSES.—See page 32.

CURRICULA AND DEGREES.—Four curricula, each requiring four years, are offered. They lead to the degrees of Bachelor of Science in Civil Engineering (B.S.C.E.), in Electrical Engineering (B.S.E.E.), in Mechanical Engineering (B.S.M.E.), and in Chemical Engineering (B.S.Ch.E.), respectively.

The Freshman year is the same for all engineering students; the Sophomore year for electrical and mechanical engineering students. The work in English, mathematics, mechanics, and physics is the same thruout the curriculum, for all engineering students, and in part coincides with that provided for students in the College of Arts and Sciences. All engineering students take some work in chemistry, drafting, surveying, and shop practice, but the time devoted to these subjects varies in the different curricula.

The degree C.E., Ch.E., E.E., or M.E., may be granted to a graduate of the College upon recommendation of the head of the department in which it is sought, and with the concurrence of the Faculty of the College, provided the candidate submits evidence that he has had, subsequent to graduation, from two to five years of successful and responsible engineering practice. The length of time demanded will depend on the character of the professional experience, and on the average grade which the candidate obtained while an undergraduate, which must be 90 or more in order to obtain the degree in two years. By "responsible" experience is meant work in which the candidate has to use his own initiative, as distinguished from the mere rendering of routine assistance.

The Bachelor degree (B.S.C.E., B.S.Ch.E., B.S.E.E., or B.S.M.E.) indicates merely the completion of a course of study in the theory of engineering; while the later degree (C.E., Ch.E., E.E., or M.E.) indicates demonstrated proficiency in the practice of some branch of engineering. Every student of engi-

neering should look forward to obtaining one of these degrees eventually.

To obtain one of these degrees application should be made to the Dean of the College not later than April 1st preceding the Commencement at which the degree may be awarded.

ENGINEERING CURRICULUM

(For all Engineering Students)

Names of Courses	Hours per Week					
	1st Semester			*2nd Semester*		
Freshman Year	*	**	†	*	**	†
Descriptive Geometry	2	3	0	2	3	0
Descriptive Geometry Problems	0	0	2	0	0	2
English I	3	6	0	3	6	0
Mathematics I	3	6	0	3	6	0
Mechanical Drawing	0	0	4	0	0	4
Military Science I	2	3	0	....	....	....
Orientation	1	0	0	....	....	....
Physics I	3	4	0	3	4	0
Physics II	0	0	4	0	0	4
Woodworking	0	0	6	0	0	6
	14	22	16	11	19	16

CIVIL ENGINEERING CURRICULUM

Names of Courses	Hours per Week					
	1st Semester			*2nd Semester*		
Sophomore Year	*	**	†	*	**	†
Chemistry I	3	6	4	3	6	4
Mathematics III	3	6	0	3	6	0
Military Science II	2	3	0	....	....	....
Physics III	2	4	2	2	4	2
Surveying I*a* and I*b*	1	2	5	3	4½	6
	11	21	11	11	20½	12
Junior Year						
Economics	2	2	0	....	....	....
Electrical Engineering I*a*	2	4	2	....	....	....
Graphic Statics	....	....	....	1	1½	3
Highways	....	....	....	2	3	0
Mathematics IV	2	4	0	2	4	0
Mechanics	4	8	0	3	6	0
Railroads	2	4	2	0	0	6
Strength of Materials	....	....	....	4	8	0
Surveying II	1	2	3	....	....	....
	13	24	7	12	22½	9

*Hours of recitation or lecture. **Estimated hours necessary for preparation. †Hours of laboratory, shop, field, or drafting-room work.

Senior Year

Contracts and Specifications	2	4	0	....	....	....
English XII	1	2	0	1	2	0
Geology	3	4	0	....	....	....
Hydraulics *a* and *b*	2	4	2	2	4	0
Municipal Engineering	2	2	2	4	6	4
Sociology	2	4	0	....	....	....
Structural Engineering	2	2	3	4	8	6
Testing Laboratory	....	....	....	0	0	2
	14	22	7	11	20	12

ELECTRICAL ENGINEERING CURRICULUM

Names of Courses	Hours per Week					
	1st Semester			*2nd Semester*		
Sophomore Year	*	**	†	*	**	†
Chemistry I	3	6	4	3	6	4
Forge and Foundry	0	0	3	0	0	3
Machine Drawing	0	0	3	0	0	3
Mathematics III	3	6	0	3	6	0
Mechanism	....	....	....	4	4	0
Military Science II	2	3	0	....	....	....
Physics III	2	4	2	2	4	2
Surveying I*a*	1	2	5	....	....	....
	11	21	17	12	20	12

Junior Year

Economics	2	2	0	....	....	....
Electrical Engineering I*a* and I*b*	2	4	2	3	6	6
Electrical Engineering III*a*	1	2	2	....	....	....
Machine Shop I	0	0	6	....	....	....
Mathematics IV	2	4	0	2	4	0
Mechanics	4	8	0	3	6	0
Strength of Materials	....	....	....	4	8	0
	11	20	10	12	24	6

Senior Year

Contracts and Specifications	2	4	0	....	....	....
Electrical Engineering II	2	4	0	3	4	0
Electrical Engineering III*b*	....	....	....	1	2	2
Electrical Engineering IV	....	....	....	0	0	6
English XII	1	2	0	1	2	0
Heat Engines	3	6	0	3	6	0
Hydraulics	2	4	2	....	....	....
Machine Design	2	4	0	2	4	4
Sociology	2	4	0	....	....	....
Steam Laboratory	....	....	....	0	0	4
	14	28	2	10	18	16

*Hours of recitation or lecture. **Estimated hours necessary for preparation. †Hours of laboratory, shop, field, or drafting-room work.

MECHANICAL ENGINEERING CURRICULUM

Names of Courses	Hours per Week					
	1st Semester			*2nd Semester*		
Sophomore Year	*	**	†	*	**	†
Chemistry I	3	6	4	3	6	4
Forge and Foundry	0	0	3	0	0	3
Machine Drawing	0	0	3	0	0	3
Mathematics III	3	6	0	3	6	0
Mechanism	....	....	....	4	4	0
Military Science II	2	3	0	....	....	....
Physics III	2	4	2	2	4	2
Surveying Ia	1	2	5	....	....	....
	11	21	17	12	20	12
Junior Year						
Chemistry III	0	0	5	0	0	5
Economics	2	2	0	....	....	....
Electrical Engineering I	2	4	2	....	....	....
Graphic Statics I	....	....	....	1	1½	3
Machine Shop I	0	0	6	....	....	....
Mathematics IV	2	4	0	2	4	0
Mechanics	4	8	0	3	6	0
Pattern Making	....	....	....	0	0	6
Strength of Materials	....	....	....	4	8	0
	10	18	13	10	19½	14
Senior Year						
Contracts and Specifications	2	4	0	....	....	....
Electrical Engineering V	....	....	....	0	0	6
English XII	1	2	0	1	2	0
Gas Engines	....	....	....	2	4	0
Heat Engines	3	6	0	3	6	0
Hydraulics	2	4	2	....	....	....
Machine Design	2	4	0	2	4	4
Machine Shop II	0	0	6	....	....	....
Sociology	2	4	0	....	....	....
Steam Laboratory	....	....	....	0	0	4
Valve Gears	....	....	....	1	2	0
	12	24	8	9	18	14

*Hours of recitation or lecture. **Estimated hours necessary for preparation. †Hours of laboratory, shop, field, or drafting-room work.

CHEMICAL ENGINEERING CURRICULUM

Names of Courses	Hours per Week					
	1st Semester			*2nd Semester*		
Sophomore Year	*	**	†	*	**	†
Chemistry I	3	6	4	3	6	4
Chemistry III	....	....	....	....	....	5
Forge and Foundry	0	0	3	....	....	....
Machine Drawing	0	0	3	0	0	3
Mathematics III	3	6	0	3	6	0
Military Science II	2	3	0	0	....	....
Physics III	2	4	2	2	4	2
Surveying I*a*	1	2	5	....	....	....
	11	21	17	8	16	14
Junior Year						
Chemistry III	0	0	5	....	....	....
Chemistry V	3	6	4	3	6	4
Chemistry VII	0	0	6	0	0	6
Economics	2	2	0	....	....	....
Mathematics IV	2	4	0	2	4	0
Mechanics	4	8	0	3	6	0
Strength of Materials	....	....	....	4	8	0
	11	20	15	12	24	10
Senior Year						
Chemistry VI	3	6	0	2	6	0
Chemistry X	....	....	....	0	0	10
Chemistry XI	3	6	0	3	6	0
Contracts and Specifications	2	4	0	....	....	....
Elective	....	....	....	3	6	0
English XII	1	2	0	1	2	0
Hydraulics	2	4	2	....	....	....
Sociology	2	4	0	....	....	....
	13	26	2	9	20	10

*Hours of recitation or lecture. **Estimated hours necessary for preparation. †Hours of laboratory, shop, field, or drafting-room work.

DEPARTMENTS OF INSTRUCTION

CIVIL ENGINEERING

Professor Reed Assistant Professor Smith

The courses in this department are designed to give the student a comprehensive grasp of the principles underlying the practice of Civil Engineering, so that on graduation he will be fitted to enter at once upon field or office work in his profession.

The work of instruction is carried on by means of assigned recitations from standard textbooks, combined with laboratory, field, and drawing-room exercises for the purpose of emphasizing the practical side of the subject.

For equipment, see page 26.

A cement and concrete laboratory has recently been installed for the testing of cement and concrete. This laboratory is of late design and is a substantial addition to the other laboratory facilities of the department.

There will be found in the general library a considerable literature on all engineering subjects: more exhaustive treatises, as well as the current literature from which the student may keep abreast of up-to-date practice.

SURVEYING I*a*.—Recitations on the use of chain, compass, transit, and level; determinations of areas, and instrumental adjustments. Field work in chaining, leveling, compass and transit surveys; and in tests and adjustments of instruments. Drawing-room work in calculations from field notes, and map-drawing. *(Required of all engineering students; first semester; Sophomore year. Recitations, 1 hour per week; field and drawing-room work, 5 hours per week.)*

SURVEYING I*b*.—Recitations on balancing of surveys and calculating of areas; methods of making topographical surveys, including the use of stadia and plane table; methods of solving other problems in land, topographical, and city surveying in which the principles of higher surveying are not involved. Field work: the making of a complete topographical survey, and the practical application of surveying to various other engineering problems. Drawing-room work on balancing survey, calculating area, and reducing field notes; plotting maps and profiles; contour problems. *(Required of civil en-*

gineering students; second semester; Sophomore year. Recitations, 3 hours per week; field and drawing-room work, 6 hours per week.)

SURVEYING II.—Recitations on precision leveling, baseline measurements, and determination of meridian, latitude, and time. Field work in precision leveling, baseline work, and meridian and latitude observations. *(Required of civil engineering students; first semester; Junior year. Recitations, 1 hour per week; field work, 3 hours per week.)*

RAILROADS.—Recitations on simple, compound, reversed, vertical, and transition curves, and earthwork. Field problems in curve layout. Drawing-room work in the paper layout of a railroad. Field and drawing-room work in the preliminary and final location of a railroad; plotting of line and profile; earthwork computations. Theory of mass diagram. *(Required of civil engineering students; Junior year. First semester: recitations, 2 hours per week; field and drawing-room work, 2 hours per week. Second semester: field and drawing-room work, 6 hours per week. Prerequisite: Surveying I.)*

HIGHWAYS.—Recitations on the economics of location and construction of highways; drainage; different types of road construction; road materials; legislation; state and national aid; pavements. A few field exercises scheduled for railroads are devoted to highway work. *(Required of civil engineering students; second semester; Junior year. Recitations, 2 hours per week. Prerequisite or to be taken simultaneously: Railroads.)*

GRAPHIC STATICS. — Recitations and drawing-room exercises in the computation of forces; the plotting of diagrams in elementary graphics and roof-truss problems. *(Required of all engineering students; second semester; Junior year. Recitations, 1 hour per week; drawing-room work, 3 hours per week. Prerequisite: Mechanics a.)*

HYDRAULICS *a*.—Recitations and laboratory work on the elements of hydraulics: dealing with the physical properties of water; head, loss of weight, center of pressure, dams, flow from orifices, jets; pressure-gages, meters, weirs, and other measuring instruments. *(Required of all engineering students; first semester; Senior year. Recitations, 2 hours per*

week; laboratory exercises, 2 hours per week. Prerequisites: Physics I and II, Mathematics III.)

HYDRAULICS *b*.—Recitations on the short tube and other tubes, flow through pipes, piezometer, hydraulic-gradient, nozzles, conduits, sewers, flow in streams, water power, turbines and wheels, stability of ships, and pumps. *(Required of civil engineering students; second semester; Senior year. Recitations, 2 hours per week.)*

CONTRACTS AND SPECIFICATIONS.—The contract in its relation to the engineer. Specifications. *(Required of all engineering students; first semester; Senior year. Recitations, 2 hours per week.)*

MUNICIPAL ENGINEERING.—A study of sewerage, water supply, and plain and reinforced concrete. Recitations on the design and construction of separate and combined sewerage systems; sewage disposal and treatment. Drawing-room work in the design of domestic and storm sewers, together with estimates of cost. Recitations on sources of water supply, purification of supply, filters, pumps, systems of supply, and fire supply. Drawing-room work in the design of a system. Recitations and drawing-room work on the theory and design of plain and reinforced concrete structures. *(Required of civil engineering students; Senior year. First semester; Recitations, 2 hours per week; drawing-room work, 2 hours per week. Second semester; Recitations, 4 hours per week; drawing-room work, 4 hours per week. Prerequisites: Mathematics III, Strength of Materials, and Hydraulics a.)*

STRUCTURAL ENGINEERING. — Recitations and drawing-room work in the graphic analysis of girders and bridge trusses. Theory and computations of stresses in various types of bridges and buildings. Theory and design of wooden and steel roof trusses; highway and railroad bridges; foundations. Theory of cantilever and continuous bridges. Drawing-room design. *(Required of civil engineering students; Senior year. First semester; Recitations, 2 hours per week; drawing-room work, 3 hours per week. Second semester; Recitations, 4 hours per week; drawing-room work 8 hours per week. Prerequisites: Mechanics a and Strength of Materials.)*

TESTING LABORATORY. — Laboratory work in testing of stone, brick, and other road materials, and in cement, sand, concrete, timber, steel, and other materials used in construc-

tion. *(Required of civil engineering students; second semester; Senior year. Laboratory work; 2 hours per week. Prerequisite: Strength of Materials.)*

ELECTRICAL ENGINEERING

Professor Benton Assistant Professor Perry

Instruction in this department is planned to lay equal stress on classroom work, of theoretical nature, and on laboratory work, of practical nature. For the latter, a well-equipt dynamo laboratory is provided, which is described on page 24.

ELECTRICAL ENGINEERING I*a*.—A short elementary course in general electrical engineering. *(First semester; 2 recitations or lectures and 1 two-hour laboratory exercise per week.)*

ELECTRICAL ENGINEERING I*b*.—Direct current machinery and applications. Textbook used in 1919-20: Langsdorf's Principles of Direct Current Machines. *(Required of Juniors in the electrical engineering course; second semester; 3 recitations and 2 three-hour laboratory exercises per week.)*

ELECTRICAL ENGINEERING II.—Alternating current machinery and applications; electric power transmission, and electric lighting. Textbook used in 1919-1920: Franklin and Esty's Elements of Electrical Engineering. *(Required of Seniors in electrical engineering; 3 recitations per week.)*

ELECTRICAL ENGINEERING III*a*.—Telegraph engineering. Textbook used in 1919-1920: Hausman's Telegraph Engineering. *(Required of Juniors in electrical engineering; first semester; 1 recitation and 1 two-hour laboratory period per week.)*

ELECTRICAL ENGINEERING III*b*.—Telephone engineering. Textbook used 1919-1920: Houston and Kennelly's The Electric Telephone. *(Required of Seniors in electrical engineering; second semester; 1 recitation and 1 two-hour laboratory period per week.)*

ELECTRICAL ENGINEERING IV. — Dynamo laboratory work to accompany Electrical Engineering II. *(Required of Seniors in electrical engineering; second semester; 2 three-hour laboratory periods per week.)*

ELECTRICAL ENGINEERING V*b*.—Dynamo laboratory work, and electrical engineering problems. *(Required of Seniors in mechanical engineering; second semester; 2 three-hour laboratary periods per week.)*

MECHANICAL ENGINEERING

Professor Chandler

The instruction in this department follows theoretical and practical lines. System, accuracy, and neatness are insisted upon. Engineering magazines and catalogs of the best machinery are accessible to the students, who are encouraged to read them. While acquainting students with practical methods, the aim is to produce engineers of independent thought and original power. In all possible ways the student is encouraged to think for himself—to make improvements wherever possible and thus to keep abreast with the progress of the times.

DESCRIPTIVE GEOMETRY.—*Projections.*—Methods of representing points, lines, surfaces, and solids in space by their projections; their intersections with each other; the careful solution of many original problems on the drawing-board. *(Required of all engineering students; Freshman year; 2 hours.)*

DESCRIPTIVE GEOMETRY PROBLEMS.—*A companion course to Descriptive Geometry.*—Free-hand drawings and further drill in making neat, accurate drawings, mechanically. The latter deals exclusively with the solution of numerous problems of the intersection of lines, planes, and solids and is taught with special reference to developing originality in thinking and reasoning. *(Required of all engineering students; Freshman year; 2 actual hours. Prerequisite: Descriptive Geometry.)*

MECHANISM.—*The Kinematics of Machinery.*—Investigation of link work, construction of gears and cams, belt and pulley drive, trains of mechanism, the velocity ratio, and directional relation of the moving parts of various machines, etc. The text is supplemented by drawing exercises in the construction of gear teeth, cams, and motion diagrams. *(Required of electrical and mechanical engineering students; Sophomore year; second semester; 4 hours.)*

MACHINE DESIGN.—The design and proportioning of machine parts—bolts, riveted joints, keys and gibs, toothed gearing, belt transmission, shafts, journals, bearings; the design of machines or parts of machines to perform certain functions. From a set of specifications and a manufacturers' catalog, plans must be drawn up for the installation of machines. A certain amount of structural drawing, relative to power plant

installations, is also taken up. *(Required of electrical and mechanical engineering students; Senior year; 2 hours of recitations per week thruout the year; also 4 actual hours of drafting room work the second semester.)*

MECHANICS Ia.—*Analytic and Applied Mechanics.*—The laws of force, friction, equilibrium of fluid pressure, inertia, centrifugal force, kinetic and potential energy, etc. Problems illustrating the practical application of these laws to cranes, derricks, pumps, boilers, engines, dynamos, etc. *(Required of all engineering students; first semester; Junior year; 4 hours. Prerequisite: Mathematics III.)*

MECHANICS IIa. — *Analytic and Applied Mechanics.* — A continuation of Mechanics Ia. *(Required of all engineering students; first semester; Senior year; 4 hours.)*

STRENGTH OF MATERIALS.—Investigation of the strength of materials used in the construction of machinery and engineering structures; analysis of stresses in bridges, roof trusses, and machinery; study of the mechanical properties of iron, steel, timber, cement, etc. The text is supplemented by laboratory tests on specimens of the various materials. *(Required of all engineering students; second semester; Junior year; 4 hours. Prerequisite: Mechanics Ia.)*

HEAT ENGINES.—The steam engine and the laws of thermodynamics; the indicator card; and the losses involved in the conversion of one form of energy into another. *(Required of mechanical and electrical engineering students; Senior year; 3 hours. Prerequisites: Mathematics III, Physics III, and Chemistry I.)*

GAS ENGINES.—The modern internal combustion engine, gas producers, and the utilization in them of liquid fuels. *(Required of mechanical engineering students; second semester; Senior year; 2 hours. Prerequisite: Heat Engines.)*

VALVE GEARS.—Graphical study of the different types of steam engine valve gears by means of the Zeuner and other diagrams; valve setting and steam distribution obtained by the usual types. *(Required of mechanical engineering students; second semester; Senior year; 2 actual hours. Prerequisite: Heat Engines.)*

STEAM LABORATORY.—Valve setting; tests of steam gauges, thermometers, engines, and boilers; use of the steam engine indicator, absorption and transmission dynamometers. *(Re-*

quired of mechanical and electrical engineering students; second semester; Senior year; 4 actual hours.)

CHEMICAL ENGINEERING

Professor McGhee Assistant Professor Black

CHEMISTRY VI.—*Chemical Technology.*—Consideration of chemical principles involved in manufacturing and refining products of commercial importance: Fuels, sulphuric acid, the soda and chlorine industries, fertilizers, cements, glass, pigments, coal tar, mineral oils, soap, starch, sugar, fermentation industries, explosives, textiles, paper, leather, etc. Visits are made to such factories and chemical plants as may be accessible. *(Required of chemical engineering students; Senior year; 3 hours.)*

CHEMISTRY X*b*. — *Engineering Chemistry.* — Analysis of materials connected with engineering: Fuels, boiler waters, iron and steel, Portland cements, asphalt and coal tar products, mineral oils, vegetable oils, fats and waxes, paints, fertilizers, soaps, and food products. *(Required of chemical engineering students; Senior year; second semester; 10 actual hours.)*

CHEMISTRY XI.—*Physical Chemistry.*—See page 59.

DRAWING AND MECHANIC ARTS

Acting Professor Strong

The drawing courses are intended to develop accuracy, speed, neatness, and good form in drafting, sketching, tracing, lettering, etc. Drafting-room practice and conventions are followed in sketching and drawing parts of machines and structures.

In the shops, by the use of standard tools and machines, the students learn something of the operations involved in building machinery and other articles of metal and wood.

DRAWING

MECHANICAL DRAWING.—The use of ordinary drawing instruments; the solution of geometrical problems; lettering; perspective, isometric, and some mechanical drawing from machine parts. *(Required of all engineering students; Freshman year; 4 actual hours.)*

MACHINE DRAWING.—*Interpreting and Reading Drawings.* —The student is required to make true working drawings, showing all the necessary dimensions and the delineation of

the parts to a proper scale. He is given a set of detailed drawings from which to make an assembly drawing or vice versa. A number of tracings and blueprints are also required. *(Required of chemical, electrical, and mechanical engineering students; Sophomore year; 3 actual hours.)*

MECHANIC ARTS

WOOD WORKING.—*(a)*—Exercises in joinery, wood turning, and some machine work.

(b)—Advanced work in carpentry, cabinet making, furniture making, turning, etc. *(Required of all engineering students; Freshman year; 6 actual hours.)*

FORGE SHOP *a* or *b*.—Hand work in drawing, welding, tempering, casehardening, brazing, etc. *(Required of chemical, electrical, and mechanical engineering students; one semester; Sophomore year; 3 actual hours.)*

FOUNDRY *a* or *b*.—Instruction in foundry practice by means of textbook, lectures, and demonstrations. *(Required of electrical and mechanical engineering students; one semester; Sophomore year; 3 actual hours.)*

MACHINE SHOP I*a*.—Bench and machine work on small articles, furnishing all-around experience. *(Required of electrical and mechanical engineering students; first semester; Junior year; 6 actual hours.)*

MACHINE SHOP II*a*.—A more advanced course than I*a*, and on more difficult problems. *(Required of mechanical engineering students; first semester; Senior year; 6 actual hours.)*

PATTERNMAKING I*b*.—Construction of wooden patterns and core boxes for machine castings and other small metal articles. *(Required of mechanical engineering students; second semester; Junior year; 6 actual hours.)*

OTHER DEPARTMENTS

Descriptions of the other subjects taken by students in the College of Engineering may be found by reference to the Index.

COLLEGE OF LAW

HARRY R. TRUSLER, *Dean*

FACULTY.—H. R. Trusler, R. S. Cockrell, C. W. Crandall, J. H. Moore.

GENERAL STATEMENT

AIM AND SCOPE.—In 1891, the American Bar Association declared that in its opinion it was a part of the highest duty and interest of every civilized state to make provision for maintaining schools of law for the thoro legal education of all who are licensed to practice law. Recognizing the soundness of this statement and desiring to discharge this duty, the State Board of Education and the Board of Control provided for the opening of the College of Law in the University in September, 1909. The advantages to accrue to the State from having, as a part of its educational system, a thoro and systematic course of instruction in the common law, with special consideration of the peculiarities and exceptions applicable in Florida, are many and evident.

It was the purpose of the Board of Control to establish a law school which, by the quality of its work and character of its equipment, would merit and command the confidence and support of the bench and bar. That the hope of accomplishing these results was well founded is shown by the number and character of those who have availed themselves of the advantages offered.

REQUIREMENTS FOR ADMISSION.—See pages 39 to 45, inclusive.

SPECIAL STUDENTS.—See "Adult Specials", page 31.

ADVANCED STANDING.—No work in law done in other institutions will be accepted towards a degree, unless the applicant passes satisfactorily the examinations held in the subjects in question in this College, or unless, by special vote of the Faculty, credit is given without examination. In no case will credit be given for work not done in residence at an approved law school.

EXAMINATIONS.—The last week of each semester is devoted to examinations covering the work of the semester.

These examinations are in writing and are rigid and searching, but are not necessarily final.

All students, unless excused by the Dean, must present themselves for the regular examination in all the subjects for which they are registered. One delinquent examination is allowed for the removal of conditions.

UNIVERSITY PRACTICE COURTS.—Thoroly organized practice courts are regular features of the third year of the curriculum. The object is to give the student practical instruction in pleading and practice at law and in equity, and experience in the preparation and trial of cases. The work is arranged as follows:

First.—Cases arising upon prepared statements of fact are assigned, upon which the students are to determine what proceedings to bring and how to bring them, issue, serve, and return process, prepare the pleadings, and to bring the case to an issue on a question of law. The case is heard on the sufficiency of the form and the structure of the pleadings; when these are approved the issue of law is argued and decided, the students acting as attorneys drawing the order, judgment, or decree to which they deem themselves entitled.

Second.—In the second class of cases, actual controversies are arranged and assigned for trial in the Circuit Court as issues of fact. After determining what action to bring, the students assigned to the case are required to issue the proper process and prepare and file the necessary pleadings, subpoena the witnesses, select the jury, examine and cross-examine the witnesses, and argue the case to the jury. Each student is required to participate in the trial of at least one common-law, one equity, and one criminal case and is instructed in appellate procedure.

The Practice Court is conducted by Judge Cockrell and Professor Crandall.

LIBRARY.—The Law Library contains:

Three sets of Florida Reports with Wurts' Digest and Supplement; Shepard's Florida Citations; The Session Laws of Florida from 1822 to 1915, except from 1828 to 1834; McClellan's Digest and Duval's Compilation of the Laws of Florida; Revised Statutes of 1898; three sets of the General Statutes of 1906; two sets of Florida Compiled Laws of 1914; Reports of the Florida Railroad Commission, the Attorney General of Florida, the Interstate Commerce Commission, and the Land Decisions of the Department of the Interior; Federal Statutes Annotated; Thorpe's American Charters, Constitutions and Organic Laws; Hinds' Precedents

of the House of Representatives; the Northwestern, Southwestern, Northeastern, Southeastern, Atlantic, Pacific, and Southern Reporters; the American Decisions, American Reports, and American State Reports, with digests; the American Annotated Cases, with digests; the American and English Annotated Cases, with digests; the Lawyers' Reports Annotated, old and new series, with digests; the United States Supreme Court Reports, with digests; Rose's Notes; Federal Cases; Federal Reporter; Stimson's American Statute Law; the State Reports to the Reporters of Alabama, Arkansas, Connecticut, Delaware, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Virginia, West Virginia, and Wisconsin; the New York Court of Appeals Reports; the New York Common Law and Chancery Reports, with digests; the Pacific States Reports, with digests, which include the California Reports, the Colorado Supreme Reports, the Colorado Appeals, the Idaho Reports, the Kansas Reports, the Montana Reports, the Nevada Reports, the New Mexico Reports, the Oregon Reports, the Utah Reports, the Washington Reports, and the Wyoming Reports to the Reporters; the Reprint of the English Reports; the English Law Reports; the British Ruling Cases; Mew's English Digest; Halsbury's Laws of England; the Century, the Decennial, the Second Decennial, and the Key Number Digests; the Encyclopedia of Law and Procedure; Corpus Juris; the Encyclopedia of Forms; the Standard Encyclopedia of Procedure; two sets of Ruling Case Law; the Harvard Law Review; more than one hundred selected volumes for the class in Brief Making and the Use of Law Books; and more than two hundred of the leading textbooks and books reference.

A course of instruction is given in legal bibliography and the use of law books. Every facility, also, is offered law students to make use of the General Library, in which are included works of interest and information to lawyers.

Both libraries are open during the academic year on every secular day between the hours of 8:00 a. m. and 10:00 p. m., and are in charge of trained librarians, who render needed aid to students.

MARSHALL DEBATING SOCIETY.—Early in the first year of the College the students organized a society that would secure to its members practice in debating and public speaking and experience in arguing legal questions, as well as drill in parliamentary law. The society was fittingly named "The Marshall Debating Society", in honor of the memory of the distinguished Southern jurist, John Marshall. Membership and work in the society are limited to students in the College of Law, but the Faculty give all possible assistance and encouragement.

UNIVERSITY PRIVILEGES.—The advantages of the other colleges of the University are open to such students in the College of Law as desire and are able to accept them. Courses in History, Economics, Sociology, Psychology, Logic, and English are particularly recommended. No extra charge is

made for such courses, but they can be taken only with the consent of the Law Faculty and of the professors concerned.

DEGREES.—The degree of Bachelor of Laws (LL.B.) is conferred upon those who satisfactorily complete the courses of study. Students admitted to advanced standing may receive the degree after one year's residence, but in no case will the degree be granted unless the candidate is in actual residence during all of the third year.

Students who have complied with all the requirements for the degree of Bachelor of Laws (LL.B.), who have maintained an average standing in their law studies 10% above the passing mark, and who have obtained the degree of A.B., or an equivalent degree, from an approved college or university, or who secure such degree the same year they complete their law course, will be awarded the degree of Juris Doctor (J.D.).

COMBINED ACADEMIC AND LAW COURSE.—See page 51.

EXPENSES.—A tuition fee of $20.00 per semester, payable in advance, is charged all law students, except those taking less than eleven hours of work, who are charged a proportional part of the full tuition. The cost of books for the first year will approximate $45.50; for the second, $42.50-$53, depending on the electives taken; for the third, $55.50. Students are urged to provide themselves with the statutes of their own state and a law dictionary. Many of these books, however, will form a nucleus of the student's future library; and by the purchase of second-hand books the cost may be materially reduced. (See also page 32.)

ADMISSION TO THE BAR.—Upon presenting their diplomas, duly issued by the proper authorities, and upon furnishing satisfactory evidence that they are twenty-one years of age and of good moral character, the graduates of the College are licensed by the Supreme Court, without examination, to practice in the Courts of Florida. They also are admitted without examination to the United States District Court for the Northern District of Florida.

COURSE OF INSTRUCTION

The course of instruction extends thru three years of thirty-five weeks each, exclusive of vacations.

Particular stress is placed upon the statutory modifications of the common law and the recent decisions of the courts. This is true in every subject in the curriculum; but it is especially emphasized in Pleading, Practice, and Evidence, as the course of study is designed to instruct the student thoroly in the peculiarities of procedure, so that he will be able understandingly to enter upon the practice of law. Students are offered the option of intensive training under either the code or the common law.

The subjects unassigned to professors in the following curriculum may not be given during the session of 1920-21, but will be given the following school year.

FIRST YEAR

FIRST SEMESTER

TORTS.—History and definitions; elements of torts; conflicting rights; mental anguish; parties to tort actions; remedies; damages; conflict of laws; methods of discharge; exhaustive study of particular torts: false imprisonment, malicious prosecution, abuse of process, conspiracy, slander and libel, trespass, conversion, deceit, nuisance, negligence, and others. Textbooks: Burdick on Torts and Burdick's Cases on Torts, 3rd edition. *(5 hours. Dean Trusler.)*

CONTRACTS I.—Formation of contract; offer and acceptance; form and consideration; reality of consent; legality of object; operation of contract; limits of the contract obligation; assignment of contract; joint obligations; interpretation of contract. Textbooks: Anson's Law of Contract, Corbin's Edition; Huffcut and Woodruff's Cases on Contract. *(4 hours. Professor Moore.)*

CRIMINAL LAW.—Sources of criminal law; nature and elements of crime; criminal intent; insanity; intoxication; duress; mistake of fact or law; justification; parties in crime; offenses against the person, habitation, property, public health and morals, public justice and authority, government, and the law of nations. Textbook: Clark on Criminal Law; selected cases. *(2 hours. Professor ————————.)*

CRIMINAL PROCEDURE.—Jurisdiction; arrest; preliminary

examination and bail; grand jury, indictment and information and their sufficiency in form and substance; arraignment, pleas, and motions; *nolle prosequi* and motions to quash; jeopardy; presence of defendant at the trial; verdict; new trial; arrest of judgment; judgment, sentence, and execution. Textbook: Clark's Criminal Procedure; selected cases. *(2 hours. Professor ————————.)*

PROPERTY I.—Personal property; possession and rights based thereon; acquisition of title; liens and pledges; conversion. Textbook: Warren's Cases on Property. *(2 hours. Professor Crandall.)*

SECOND SEMESTER

EQUITY JURISPRUDENCE.—History and definition; jurisdiction; maxims; accident, mistake, fraud; penalties and forfeitures; priorities and notice; bona fide purchasers; estoppel; election; satisfaction and performance; conversion; equitable estates, interest, primary rights; trusts; powers, duties, and liabilities of trustees; mortgages; equitable liens; assignments; specific performance; injunction; reformation; cancellation; cloud on titles; ancillary remedies. Textbook: Eaton on Equity; selected cases. *(5 hours. Dean Trusler.)*

CONTRACTS II AND QUASI CONTRACTS.—Rules relating to evidence and construction; discharge of contract. Origin and nature of quasi contract; benefits conferred in misreliance on rights or duty, from mistake of law, and on invalid, unenforceable, illegal, or impossible contract; benefits conferred thru dutiful intervention in another's affairs; benefits conferred under constraint; action for restitution as alternative remedy for breach of contract and for tort. Textbooks: Anson's Law of Contract, Huffcut's Edition; Woodruff's Cases on Quasi Contracts. *(3 hours. Professor Moore.)*

MARRIAGE AND DIVORCE.—Marriage in general; nature of the relation; capacity of parties; annulment; divorce; suit, jurisdiction, grounds; defenses; alimony; effect on property rights; custody and support of children; agreements of separation. Textbook: Vernier's Cases on Marriage and Divorce. *(1 hour. Professor Cockrell.)*

COMMON LAW PLEADING.—History and development of the personal actions at common law; theory of pleading and its peculiar features as developed by the jury trial; demurrers, general and special; pleas in discharge, in excuse, and by way

of traverse; replication *de injuria;* duplicity; departure; new assignment; motions based on pleadings; general rules of pleadings. Textbook: Andrews' Stephen's Common Law Pleadings. *(3 hours. Professor Crandall.)*

SALES.—Sale and contract to sell; statute of frauds; illegality; conditions and warranties; delivery; acceptance and receipt; vendor's lien; stoppage *in transitu;* bills of lading; remedies of seller and buyer. Textbook: Burdick on Sales; selected cases. *(1 hour. Professor Moore.)*

PROPERTY II.—Introduction to the law of conveyancing; rights incident to the ownership of land, and estates therein, including the land itself, air, water, fixtures, emblements, waste; profits; easements; licenses; covenants running with the land. Textbook: Warren's Cases on Property. *(2 hours. Professor Crandall.)*

SECOND YEAR

FIRST SEMESTER

UNITED STATES CONSTITUTIONAL LAW.—General principles; distribution of governmental powers; congress; the chief executive; the judiciary; police powers; eminent domain; checks and balances; guarantee of republican government; civil rights; political privileges; guarantee in criminal cases; impairment of contractual obligations. Textbook: Hall's Cases on Constitutional Law, American Casebook Series. *(4 hours. Professor Cockrell.)*

AGENCY.—Nature of the relation; purposes and manner of creation; who may be principal or agent; ratification; delegation of authority; general and special agents; rights and duties of agents; termination, nature, extent, construction, and execution of authority of agents; rights, duties, and liabilities of agents; principal and third persons *inter se;* particular classes of agents. Textbooks: Mechem's Outlines of Agency and Mechem's Cases on Agency. *(2 hours. Professor Cockrell.)*

EQUITY PLEADING.—Nature and object of pleadings in equity; parties to a suit in equity; proceedings in a suit in equity; bills in equity; disclaimer; demurrers and pleas; answer and replication; preparation of bills, demurrers, pleas, answers. Textbooks: Fletcher's Equity Pleading and Practice; Rules of the Circuit Court in Chancery in Florida; Rules of the Federal Court; Statutes of Florida. *(3 hours. Professor Cockrell.)*

BRIEF MAKING AND THE USE OF LAW BOOKS.—Where to find the law; how to use statutes and decisions; how to find the law; the trial brief; the brief on appeal and its preparation. Textbook: Cooley's Brief Making and the Use of Law Books. *(1 hour. Professor Crandall.)*

PROPERTY III.—Titles and conveyancing, including acquisition of titles by possession, modes of conveyance at common law, under the statute of uses, and by statutory grant; the execution of deeds; estates created; covenants for titles; estoppel by deed; priorities among titles. Textbook: Aigler's Cases on Property. *(3 hours. Professor Crandall.)*

FLORIDA CONSTITUTIONAL LAW.*—Declaration of rights; departments of government; suffrage and eligibility; census and apportionment; counties and cities; taxation and finance; homestead and exemption; married women's property; education; public institutions; miscellaneous provisions. Textbooks: Constitution, statutes, and judicial decisions of Florida. *(2 hours. Dean Trusler.)*

CODE PLEADING.**—Changes introduced by the codes; forms of action; necessary allegations; the complaint; prayer for relief; answers, including general and special denials; new matter; equitable defenses; counter claims; pleading several defenses; replies and demurrers. Textbook: Pomeroy's Code Remedies. *(2 hours. Professor Moore.)*

SECOND SEMESTER

EVIDENCE.—Judicial notice; kinds of evidence; burden of proof; presumptions of law and fact; judge and jury; best evidence rule; hearsay rule and its exceptions; admissions; confessions; exclusions based on public policy and privilege; corroboration; parol evidence rule; witnesses; attendance in court; examination, cross examination, privilege; public documents; records and judicial writings; private writings. Textbook: Greenleaf on Evidence, 16th edition, vol. 1; selected cases. *(4 hours. Professor Cockrell.)*

PRIVATE CORPORATIONS.—Nature; creation and citizenship; defective organization; promotors; powers and liabilities; corporations and the State; dissolution; membership; management; creditors; foreign corporations; practice in forming corporations, preparing by-laws, electing officers, and in con-

*For students intending to practice in Florida.
**For students not intending to practice in Florida.

ducting corporate business. Textbooks: Clark on Private Corporations, and Wormser's Cases on Corporations. *(4 hours. Professor ————————.)*

LEGAL ETHICS.—Admission of attorneys to practice; taxation; privileges and exemptions; authority; liability to clients and to third parties; compensation; liens; suspension and disbarment; duties to clients, courts, professional brethren, and to society. Textbooks: Attorneys at Law in Ruling Case Law and the Code of Ethics adopted by the American Bar Association. *(1 hour. Dean Trusler.)*

PROPERTY IV.—History of the law of wills and testaments; testamentary capacity and intent; kind of wills and testaments; execution, revocation, republication, revival of wills; descent; probate of wills and the administration of estates. Textbook: Costigan's Cases on Wills. *(3 hours. Professor ——.)*

FLORIDA CIVIL PRACTICE.* — Organization of courts; parties; joinder and consolidation of actions; issuance, service, and return of process; appearance; trial; verdict; proceedings after verdict; appellate proceedings; peculiar characteristics of the common law actions; special proceedings including certiorari, mandamus, prohibition, quo warranto, habeas corpus, attachment, garnishment, statutory liens, forcible entry and detainer, landlord and tenant. Textbook: Crandall's Florida Civil Practice. *(3 hours. Professor Cockrell.)*

GENERAL CIVIL PROCEDURE.**—The court; parties; forms of action; the trial; selection of jury and procedure in jury trial; judgment; execution; appeal and error. Textbook: Loyd's Cases on Civil Procedure. *(3 hours. Professor ————.)*

THIRD YEAR

FIRST SEMESTER

INSURANCE.—Theory, history, significance; insurable interest; concealment, representations, warranties; subrogation; waiver and estoppel; assignees, beneficiaries; creditors; fire, life, marine, accident, guarantee, liability insurance. Textbooks: Humble's Law of Insurance and Humble's Cases on Insurance. *(1 hour. Dean Trusler.)*

PUBLIC SERVICE CORPORATIONS.—Nature of public utilities; railroads and other common carriers of goods and passengers;

*For students intending to practice in Florida.
**For students not intending to practice in Florida.

telegraphs and telephones; light and water companies; inns; warehouses; elevators; stockyards; methods of incorporation; public control; rights and obligations at common law and under federal and state statutes. Textbook: Wyman's Cases on Public Service Companies. *(2 hours. Professor ————.)*

FEDERAL PROCEDURE AND BANKRUPTCY.—System of courts created under the authority of the United States, jurisdiction of the several courts and procedure therein; Federal and state bankruptcy legislation; who may become bankrupt; prerequisites to adjudication; receivers; trustees; provable claims; exemptions; composition; discharge. Textbooks: Hughes on Federal Procedure, and Remington on Bankruptcy, Students' Edition. *(3 hours. Professor ————————.)*

PARTNERSHIP.—Creation, nature, characteristics of a partnership; nature of a partner's interest; nature, extent, duration of the partnership liability; powers of partners; rights, duties, remedies of partners *inter se;* rights and remedies of creditors; termination of partnership. Textbook: Burdick on Partnership. *(2 hours. Professor Moore.)*

INTERNATIONAL LAW.—Nature, subjects, and objects of international law; intercourse of states; settlement of international differences; law of war; law of neutrality. Textbook: Hershey's Essentials of International Public Law; selected readings. *(1 hour. Professor Cockrell.)*

ADMIRALTY.—Jurisdiction; contracts, torts, crimes; maritime liens, ex contractu, ex delicto, priorities, discharge; bottomry and respondentia obligations; salvage; general average. Textbook: Hughes on Admiralty. *(1 hour. Professor Crandall.)*

JUDGMENTS.—Nature and essentials; kinds; record; vacation; amendment; modification; satisfaction. Textbooks: Rood on Judgments and Rood's Cases on Judgments. *(2 hours. Professor Crandall.)*

TRUSTS.—The Anglo-American system of uses and trusts; creation, transfer, extinguishment of trust interests; priorities between competing equities; construction of trust dispositions; charitable trusts. Textbook: Kenneson's Cases on Trusts. *(2 hours. Professor Moore.)*

PRACTICE COURT.—*(1 hour.)*

SECOND SEMESTER

DAMAGES.—General principles; nominal; compensatory; exemplary; liquidated; direct and consequential; proximate and remote; general and special; measure in contract and tort actions; entire damages in one action; mental suffering; avoidable consequences; value; interest; lateral support; counsel fees and expenses of litigation; injuries to real property and limited interests; death by wrongful act; breaches of warranty. Textbook: Rogers' Law of Damages; selected cases. *(2 hours. Dean Trusler.)*

MUNICIPAL CORPORATIONS.—Creation of cities and towns; powers of a municipality, including public powers, power of taxation, power over streets and alleys, etc.; obligations and liabilities of municipal corporations; powers and liabilities of officers. Textbook: Cooley on Municipal Corporations. *(2 hours. Professor Crandall.)*

SURETYSHIP.—Nature of the contract; statute of frauds; surety's defenses against the creditor; surety's rights, subrogation, indemnity, contribution, exoneration; creditor's rights to surety's securities. Textbook: Spencer on Suretyship. *(2 hours. Professor Moore.)*

NEGOTIABLE INSTRUMENTS.—Law merchant; definitions and general doctrines; contract of the maker, acceptor, certifier, drawer, indorser, vendor, accommodater, assurer; proceedings before and after dishonor of negotiable instruments; absolute defenses; equities; payments; conflict of laws. Textbook: Biglow on Bills, Notes and Cheques. *(2 hours. Professor Moore.)*

CONFLICT OF LAWS.—Jurisdiction; sources of law and comity; territorial jurisdiction; jurisdiction in rem and in personam; remedies, rights of action, procedure; creation of rights; property rights; personal rights; inheritance; obligations ex delicto and ex contractu; recognition and enforcement of rights; personal relations; property; inheritance; administration of estates; judgments and obligations. Textbook: Minor on the Conflict of Laws. *(2 hours. Professor Moore.)*

PROPERTY V.—Conditional estates; licenses and waivers; reversions and remainders; rule in Shelley's Case; future uses; future interests; executory devises and bequests; vesting of legacies; cross limitations; gifts; failure of issue; determination of classes; powers; rule against perpetuities; restraints

on alienation. Textbook: Kales' Cases on Future Interests. *(3 hours. Professor Crandall.)*

JURISPRUDENCE.—Nature, meaning, subject matter of law; justice; divisions of law; persons; relation of persons to things; claims of persons on persons; legal authorities and their use; customs; law reports; case-law; ancient and modern statutes. Textbook: Pollock on Jurisprudence. *(1 hour. Professor Cockrell.)*

PRACTICE COURT.—*(1 hour.)*

TEACHERS COLLEGE AND NORMAL SCHOOL

FACULTY.—H. W. Cox, J. N. Anderson, E. C. Beck, J. R. Benton, L. W. Buchholz, W. S. Cawthon, C. L. Crow, J. M. Farr, P. W. Fattig, J. R. Fulk, W. B. Hathaway, J. M. Leake, J. L. McGhee, J. W. Norman, T. H. Quigley, T. M. Simpson, A. J. Strong, J. E. Turlington.

TEACHING FELLOW.—E. S. Barney.

STUDENT ASSISTANTS.—H. R. DeSilva, J. A. Gillis, F. Y. Durrance.

GENERAL STATEMENT

The Teachers College and Normal School is a professional school, the main purpose of which is to train young men for positions in the public-school system of the State as teachers, principals, supervisors, or as county or city superintendents of public instruction. Its Review Courses are intended to prepare for the examinations for County and State Certificates. For those not wishing to become teachers it offers courses giving the information about and the insight into educational problems that every citizen should possess.

VOCATIONAL EDUCATION.—By Act of the Legislature of 1917 the University was designated as the institution, under the Smith-Hughes Act, for training teachers for Agriculture and for Trades and Industries. Tentative curricula for Agricultural Education and for the Trades and Industries have been outlined. It is hoped that a large number of students will register for these courses. Many teachers of these subjects will be needed and good salaries will be paid.

The University will secure for students positions during vacations enabling them to gain the practical experience required of those taking courses in Vocational Education.

PEABODY HALL.—A description of Peabody Hall, the home of the College, is to be found on page 20.

LIBRARY.—The pedagogical library receives many of the best educational journals and contains the standard books on educational theory, general and special methods, the history of education, psychology and philosophy. Additions are made every year.

PSYCHOLOGICAL LABORATORY.—The Psychological Laboratory (see page 25) affords an excellent opportunity to investi-

gate the laws of the mind. To know these thru experiment will give the teacher greater power to direct their development in the child.

PEABODY CLUB.—This Club meets once a week to discuss educational problems, especially those that confront the young teacher. It also brings out the advantages of holding teachers' meetings and conferences. All students of the College are urged to become members and to take an active interest.

ORGANIZATION.—The Teachers College and Normal School has the following divisions:

(1) Teachers College.
(2) Normal School.
(3) Practice High School.
(4) Teachers' Employment Bureau.
(5) State High School Inspection.
(6) University Summer School.

STATE CERTIFICATES.—Graduates of the Teachers College and of the Normal School are granted State Certificates without further examination—provided that one-fifth of their work has been devoted to professional training and provided that during each of the last two years of their course they have made a general average of eighty-five on all subjects and have not fallen below sixty in any subject. These State Certificates are converted into Life Certificates in the usual way.

TEACHERS COLLEGE

ADMISSION.—See pages 39 to 45, inclusive.

TEACHING FELLOWSHIPS.—See page 35.

DEGREES.—Courses are offered leading to the degrees of Bachelor of Arts in Education and Bachelor of Science in Education.

ELECTIVES.—In order that they may be well prepared to teach in a high school, students are expected to take at least three high-school subjects for one year or longer in the College. It is assumed that they will elect the subjects which they hope to teach and will take advantage of the freedom of choice to become especially proficient in these. For a list of Elective Groups see page 50. For the A.B. degree the major elective work must be chosen in Groups II and III, or Group II or III; for the B.S. degree, from Group IV. The choice of elec-

tives must be approved by the Dean and no more than the required number shall be taken without his consent.

CURRICULUM

Leading to the Degree of Bachelor of Arts or Bachelor of Science in Education

Freshman Year

Names of Courses	Nature of Work	Hours per Week
Education I*a*	Psychology	3
Education I*b*	Methods of Study	
English I	Rhetoric and Composition	3
Foreign Language	French, Latin, or Spanish	3
Agronomy I	General Agriculture	6
Biology I*a* and II*b*		
Chemistry I	General Chemistry	
Foreign Language	French, Latin, or Spanish	
History I	Modern European	
Mathematics		
Physics I	General Physics	
Military Science I		1
		16

Sophomore Year

Education II	Reviews and Methods of Teaching Arithmetic and Grammar, Reading, Geography, and History	3
Military Science II		1
Philosophy I	General Psychology	3
*Group II		3
*Group III		3
*Group IV		3
		16

Junior Year

Education III	Public-School Administration	3
Education IV*a*	History of Education	3
Education IV*b*	Secondary Education	
Electives		9
		15

Senior Year

Education V	Principles and Philosophy of Education	3
Education VI*a*	Child Study	3
Education VI*b*	Practice Teaching	
Education VII	High-School Problems	1
Electives		9
		16

*See page 50.

CURRICULUM, AGRICULTURAL EDUCATION COURSE

Leading to the Degree of Bachelor of Science in Agricultural Education

Freshman Year

Names of Courses	Nature of Work	*Hours per Week	
Agricultural Engineering I*a*	Machinery and Motors	4	0
Agronomy I	Soils and Crops	2	2
Animal Husbandry I*b*	Types and Breeds of Animals	0	4
Chemistry I	General Chemistry	5	5
English I	Composition and Rhetoric	3	3
Horticulture I	Plant Propagation	2	2
Military Science I		1	1
		17	17

Sophomore Year

Agricultural Education S	Vocational Guidance and Rural Problems	2	2
Agronomy II*a*	Field Crops	3	0
Agronomy III*b*	Forage Crops	0	3
Biology I*a*	General Biology	4	0
Biology II*a*	General Botany	0	4
Dairying I*a*	Dairy Products	3	0
Horticulture II	Trucking	2	2
Education I	Psychology and Methods	3	3
Military Science II		1	1
Poultry Husbandry II*b*	Poultry Culture	0	3
		18	18

Junior Year

Agronomy IV*b*	Fertilizers	0	3
Animal Husbandry IV*a*	Beef Production	2	0
Animal Husbandry V*b*	Swine Production	0	2
Biology VI	Economic Zoology	3	3
Education III	Public School Administration	3	3
Education VIII	Methods in Agricultural Education	3	3
Horticulture IV*a*	Citrus Fruits	3	0
Elective		3	3
		17	17

Senior Year

Agronomy VI*a*	Farm Management	3	0
Education VI	Practice Teaching and Observation	3	3
Horticulture VII*a*	Deciduous and Subtropical Fruits	3	0
Shop Work	Vocational Shop Work	3	3
Veterinary Science I*b*	Veterinary Elements	0	3
Electives		3	6
		15	15

*The first column gives the hours per week for the first semester; the second, those for the second semester.

VOCATIONAL EDUCATION—TRADES AND INDUSTRIES

CURRICULUM FOR TEACHERS OF RELATED SUBJECTS

Leading to the Degree of B. S. in Education

Subjects of Study	*Hours per Week	
Freshman Year		
Advanced Algebra, Trigonometry and Analytical Geometry	0	3
Descriptive Geometry	3	3
Elementary Woodworking	3	3
English I	3	3
Mechanical Drawing	2	2
Military Science I	2	0
Physics I	3	3
Physics II	2	2
Sophomore Year		
Carpentry	6	0
Chemistry I	5	5
Forge Shop	1½	0
Foundry	0	1½
Machine Drawing	1½	1½
Masonry and Concrete	0	3
Mechanical Technology	0	1
Military Science II	2	0
Physics III	3	3
Plumbing	0	3
Psychology	3	0
Principles of Teaching	0	3
Junior Year		
Analytical Mechanics	4	0
Architectural Drawing	3	3
Economics	3	0
Electrical Engineering Ia	3	0
Graphic Statics	0	2½
History of Vocational Education	0	3
Kinematics of Machinery	2	2
Machine Shop	3	0
Pattern Making	0	3
Sheet Metal	3	3
Strength of Materials	0	4
Senior Year		
Electrical Engineering V	0	3
Gas Engines	0	2
Gas Engines, Laboratory	0	2
Machine Design	2	4
Machine Shop	3	0
Organization, Surveys, and Vocational Guidance	0	3
Practice-Teaching	6	6
Steam Engines	3	0
Steam Engines, Laboratory	0	2
Vocational Methods	3	0

*The first column gives the hours per week for the first semester; the second, those for the second semester.

TWO-YEAR COURSE FOR TEACHERS OF RELATED SUBJECTS

Presupposing considerable practical experience

Subjects of Study	*Hours per Week	
First Year		
Elective Shop Work, Drawing, etc. (supplementing practical experience)	5	5
Elective Mathematics and Science	5	5
Elective English, Civics, Economics, Sociology, etc.	5	5
Elementary Psychology	5	0
Principles of Teaching	0	5
Second Year		
History of Vocational Education	0	3
Vocational Methods	3	0
Practice Teaching	4	4
Organization, Surveys, and Vocational Guidance	0	3
Elective Shop, Drawing, or Applied Science	13	10

*The first column gives the hours per week for the first semester; the second, those for the second semester.

DEPARTMENTS OF INSTRUCTION

EDUCATION

Professor Cox	Professor Norman
Professor Fulk	Professor Fattig
Professor Buchholz	Professor Quigley

EDUCATION I*a*.—*Psychology.*—Designed to set forth the main phenomena of mental life, to furnish the student with the concepts and terms which will constantly recur in his further study, and to prepare candidates for the examination on psychology for the State Certificate. The textbook prescribed by the State Superintendent of Public Instruction will be used in connection with lectures and much reference work to standard American writers. *(Required of Freshmen; first semester; 3 hours.)*

EDUCATION I*b*.—*General Methods.*—The application of the laws of psychology, as learned in Education I*a*, to the general methods of study and of teaching. The student will be shown the best methods of study that psychological laws indicate and he will be urged to pattern his own habits of study accordingly. General principles and methods of teaching will be stressed. *(Required of Freshmen; second semester; 3 hours.)*

EDUCATION II*a*.—*Reviews and Methods of Teaching Arithmetic and Grammar.*—A review of arithmetic and grammar, to acquaint the student with the fundamental principles of the subjects, followed immediately by methods of teaching them. *(Required of Sophomores; first semester; 3 hours.)*

EDUCATION II*b*.—*Reviews and Methods of Teaching Reading, Geography, and History.*—Mastery of each subject from the teacher's point of view, followed immediately by the best methods of teaching the subject. *(Required of Sophomores; second semester; 3 hours.)*

EDUCATION III.—*Public School Administration.*—Designed to meet the needs of school principals, superintendents, and supervising officers. An attempt to present the essential principles governing proper educational control for all types of public-school work, city, county, and state. *(Required of Sophomores; 3 hours.)*

EDUCATION IV*a*.—*History of Education.*—This course has two main purposes: first, to lead the student to appreciate

the present educational situation in the light of the past; second, to acquaint him with the influence of the great educational leaders since the time of Rousseau. *(Required of Juniors; first semester; 3 hours.)*

EDUCATION IV*b*.—*Secondary Education*.—Designed to give insight into the problems of secondary schools. Many problems relating to the high schools in this and other Southern states are gone over for the purpose of understanding the present situation and of planning for better things. The following special topics may be mentioned: History of Secondary Education, Comparative Study of Secondary Education in Different Countries, The Junior High-School Movement, The High School as a Factor in Community Uplift, Economy in Secondary Schools, Adolescence. Lectures and reference work supplement the reading of several texts. *(Required of Juniors; second semester; 3 hours.)*

EDUCATION V.—*Principles and Philosophy of Education*.—Principles underlying high-school curricula, culture, the new humanities, the relation of education to the state, democracy and education, interest and effort, the social, moral, and religious aspects of education. The purpose is to give a broad, sound philosophy upon which the teacher may base his practice in the schoolroom. *(Required of Seniors; 3 hours.)*

EDUCATION VII*a*.—*Child Study*.—This course aims to give the student an insight into the physical development and growth of the child, the meaning of protracted infancy, the origin and development of instincts, the development of intellect, heredity, individuality, abnormalities, and the application of facts learned to school work, etc. *(Required of Seniors; first semester; 3 hours.)*

EDUCATION VI*b*.*—*Practice Teaching*.—Knowledge of the principles, theory, and history of education will better fit any teacher for his work, but these without concrete experiences and practice under direction will not give the best results. This course is planned to give the student practice in conducting recitations under close supervision. Lesson plans will be required for all recitations, and the manner of teaching

*Students preparing to teach agriculture, must do their practice teaching in that subject, and four (4) hours will be required. Education VIII is a prerequisite.

will be subject to criticism. *(Required of Seniors; second semester; 3 hours.)*

EDUCATION VII*a*.—*High-School Problems.*—Planned principally for high-school teachers, special attention being given to practical problems they will have to solve in the actual work of their profession. *(Required of Seniors; first semester; 1 hour.)*

EDUCATION VII*b*.—*Adolescence.*—A study of the period of transition from childhood to maturity; problems and phases of development connected with adolescence, especially during the secondary school age. An advanced course in Child Study, planned primarily for principals and teachers in secondary schools. *(Prerequisite: Education VIa; elective for Seniors; second semester; 3 hours.)*

EDUCATION VIII.—*Methods of Teaching Agriculture.*—Methods in selecting material for agricultural instruction, organizing courses of study, and in presenting the subjects to pupils. *(Junior year; 3 hours.)*

EDUCATION IX*a*. — *Vocational Education.* — Development and principles of vocational education with special reference to vocational opportunities in Florida; prevocational education and vocational guidance. *(First semester; 3 hours.)*

EDUCATION X. — *Educational Hygiene.* — Conditions and forces that affect the physical and mental vigor of children and teachers, and relate the school to the health of the home and the community. Location and sanitation of school buildings; hygienic furniture, etc.; diseases and physical defects; medical inspection; hygiene of instruction; teacher's health; play and recreation; teaching of hygiene. *(Juniors and Seniors; second semester; 3 hours.)*

EDUCATION XI.—*Educational Diagnosis.*—The making of school surveys; the use of scales for measuring educational products; educational stock-taking. How to determine what kind of school a community needs, and what progress pupils are making, etc. *(Elective for Graduate Students.)*

EDUCATION XII.—*Current Educational Problems.*—Problems vitally important to the success of the teacher. Various phases of school life and activities will be discussed and some attention will be given to educational administration and school law as they affect the teacher. *(Elective for Graduate Students; 3 or more hours.)*

ITINERANT PLAN OF TRAINING INDUSTRIAL TEACHERS

Under the Smith-Hughes Act there are two types of teachers of trade and industrial education: the shop teacher, who gives instruction in the actual shop or trade manipulative subjects—carpentry, machine shop, blacksmithing, printing, etc.; the related-subject teacher, who teaches the technical branches relating to the trade—drawing, related mathematics or science.

In cooperation with the State Board for Vocational Education, the University is securing as many as possible related-subject teachers from the industries of the State, altho a few may be obtained from among the members of the teaching profession. All of the shop teachers will be obtained from the industries. Prospective trade and industrial teachers are selected because of their industrial experience, education, moral and civic ideals, and potential teaching ability, which qualifications are determined mainly by personal interview and by careful inquiry of fellow-workmen and employers. Once selected, these prospective teachers, obviously varying greatly in preparation, are grouped in evening classes in their home cities and trained by a representative of the University in the art of teaching, altho as much as possible of the work in Practice-Teaching is done in Part Time classes.

As demand arises, those who have successfully completed the course are, with the approval of the State Board for Vocational Education, put into service by local boards. Fifteen men have up to the present time been thus trained and immediately afterwards placed in teaching positions.

The subjects taught are divided into four groups, each usually requiring thirty hours for completion. If possible, however, much more than thirty hours will be devoted to the Practice-Teaching, especially as thru this most of the Observation will also be accomplished.

The course will in general be as follows:

A.—History and Development of the Vocational Education Movement; Mechanics of Teaching; Shop Organization; Educational Law (State and National); Trade Analysis for Educational Purposes.

B.—Applied Science; Shop Mathematics; Mechanical Drawing and Design; Industrial Methods.

C.—Practice-Teaching.

D.—Practice-Teaching; Observation; Making Up Deficiencies in Trade or General Education and in Trade Experience.

OTHER DEPARTMENTS

Descriptions of the other subjects that may be taken by students in the Teachers College can be found by reference to the Index.

NORMAL SCHOOL

COURSES AND REQUIREMENTS

The Normal School offers four courses:

Course I.—Review Course.—This covers both the contents and the methods of teaching the subjects required for County and State Certificates and is designed for those engaged in teaching from four to six months in the year and desirous of renewing or advancing the grade of their certificates.

A registration fee of five dollars ($5.00) is charged students entering immediately after the Christmas vacation and of two dollars and a half ($2.50) those entering after April.

Course II.—One-Year Course.—This covers the same work as Course I, but is gone over more slowly and may be entered upon at any time during the year. Hours and classes are arranged to suit the special needs of students.

There are no requirements for admission to either Course I or II and all teachers who can profit by either are welcomed. The character of the work leading to State and Special Certificates is described under Course IV; an outline of the work leading to a County Certificate is given below. The books adopted by the State Text Book Commission will be used as the basis of instruction.

CURRICULUM

Leading to County Certificates

Names of Courses	Nature of Work	Hours per Week
Agriculture		2
Algebra		4
Arithmetic		3
Civil Government		2
English Composition		2
English Grammar		2
Hygiene		2
Orthography		2
Pedagogy		2
Physical Geography		3
Political Geography		2
Reading		1
United States and Florida History		3

DESCRIPTION OF COURSES OF STUDY

AGRICULTURE R.—Soils, plants and their common diseases, insects, farm crops, domestic animals, etc. Textbooks, laboratory, and field work. Methods of teaching agriculture in rural schools stressed. *(2 hours.)*

ALGEBRA R.—Fundamental operations, simple and simultaneous equations, factoring, fractions, involution and evolution, quadratic equations, progressions, ratio and proportion. Closely correlated with arithmetic. *(4 hours.)*

ARITHMETIC R.—Review, from both the teacher's and the child's point of view, of subjects covered by the textbook adopted by the State. Principles and methods of teaching arithmetic. *(3 hours.)*

CIVIL GOVERNMENT R.—Local, town and city, county, State, and national governments; methods of teaching the subject. *(2 hours.)*

ENGLISH COMPOSITION R.—Words, sentences, paragraphs, whole compositions; narration, description, exposition, argument; much practice in writing. Punctuation and spelling. Letter-writing. *(2 hours.)*

ENGLISH GRAMMAR R.—Parts of speech; inflection; syntax, structure, and analysis of sentences; principles and methods of teaching grammar. *(2 hours.)*

HYGIENE R.—The body; functions and use of the organs. The importance of hygiene and sanitation, how to keep well and physically efficient. *(2 hours.)*

ORTHOGRAPHY R.—The spelling of common words and best methods of teaching spelling. Correct spelling in all written work demanded. *(2 hours.)*

PEDAGOGY R. — School management, general and special methods of teaching, elementary principles of child nature, school hygiene and sanitation, personality of teacher, relation of school and community, etc. *(2 hours.)*

PHYSICAL GEOGRAPHY R.—The main topics found in the ordinary textbooks. Stress placed on the effects that physical features have on man, commerce, and society. Closely correlated with agriculture. *(3 hours.)*

POLITICAL GEOGRAPHY R.—Review of the geography of the United States and the world. Special attention to Florida and its relation to other states. Instruction in the use of

textbooks, maps, globes, industrial products, stereoscope, postcards, and newspapers. *(2 hours.)*

READING R.—Practice in reading to the end that teachers may be able to read well to their classes. Story-telling. Methods of teaching the subject. *(1 hour.)*

UNITED STATES AND FLORIDA HISTORY R.—Review of U. S. and Florida history; their correlation with geography and literature; methods of teaching the subject. Special attention given to biography and the topic method. *(3 hours.)*

Course III.—Two-Year Elementary Professional Course.—This course includes all subjects taught in the elementary and rural schools. It gives special attention to methods, management, rural problems, and such other professional subjects as will make rural- and grammar-school teachers more efficient. Applicants who hold teachers' certificates, or who have finished the eighth grade will be admitted to the first year. On the completion of Course III, students will be admitted to the first year of the Four-Year Normal Course.

CURRICULUM, TWO-YEAR ELEMENTARY PROFESSIONAL COURSE

First Year

NAMES OF COURSES	NATURE OF WORK	HOURS PER WEEK
Education 2-Yr. I	Reviews and Methods of Teaching U. S. and Florida History, Reading, and Political Geography	4
English 2-Yr. I	Grammar, Composition, and Classics	4
History 2-Yr. I	Ancient History	4
Mathematics 2-Yr. I	Algebra	4
Science 2-Yr. I	Physical Geography and Physiology	4

Second Year

Education 2-Yr. II	Reviews and Methods of Teaching Arithmetic and English Language	4
Education 2-Yr. II	School Management and Rural Problems	4
English 2-Yr. II	Composition and Classics	4
Mathematics 2-Yr. II	Algebra	4
Science 2-Yr. II	Agronomy and Horticulture	3

DESCRIPTION OF COURSES OF STUDY

EDUCATION 2-YR. I.—*Reviews and Methods of Teaching U. S. and Florida History, Reading, and Political Geography.*—The work is broader and more advanced than that of the eighth grade and is looked at from both the teacher's and pupil's point of view. History is studied in the fall, reading in the winter, and geography in the spring, the subject-matter

being first given and then the methods of presenting it to a class. *(4 hours.)*

EDUCATION 2-YR. II.—*Reviews and Methods of Teaching Arithmetic and the English Language.*—Thoro reviews are made and difficult parts explained. Methods of teaching are given after the reviews are completed. *(4 hours.)*

EDUCATION 2-YR. III.—*School Management and Rural Problems.* — School organization, classification, discipline; school hygiene, recess, play; one- and two-teacher rural schools; grading rural schools; rural boys and girls; relation of teacher to child, home, and community, etc. *(4 hours.)*

ENGLISH 2-YR. I.—*Grammar, Composition, and Classics.*—Advanced grammar *(twice per week)*. Composition, oral and written; at least one written per week. Narration stressed. Spelling and letter-writing. Classics, College Entrance Requirements and those suited for the upper grades of the grammar school and the ninth grade of the high school. *(4 hours.)*

ENGLISH 2-YR. II.—*Composition and Classics.*—A textbook in composition used as guide *(twice per week)*. Description and narration stressed. Oral and written composition; one written each week. Spelling and letter-writing. Classics *(twice per week)* suited to grade and high-school work. *(4 hours.)*

HISTORY 2-YR. I.—*Ancient History.*—History of Greece and Rome stressed. Special note of hero stories, biography, mythology, and that which appeals to the child in the grades. Reference reading required. *(4 hours.)*

MATHEMATICS 2-YR. I. — *Algebra.* — A beginner's course covering the work thru elementary quadratics. *(4 hours.)*

MATHEMATICS 2-YR. II.—*Algebra.*—Review of algebra to quadratics, then quadratics and the remaining part of an ordinary second-year algebra. *(4 hours.)*

SCIENCE 2-YR. I.—*Physical Geography and Physiology.*—The work in physical geography will be about as outlined in the newer secondary school geographies. The proper correlation of physical with political and commercial geographies —especially necessary for teachers. Laboratory and field work with notes on all observations and experiments. *(First semester.)* Physiology, sanitation, and hygiene. Laboratory work with notes required. *(Second semester; 4 hours.)*

SCIENCE 2-YR. II. — *Agronomy and Horticulture.* — Soils

and soil fertility in relation to plant growth and the principles governing production of field and forage crops. *(First semester.)* Varieties and culture requirements of our principal fruits and vegetables; location of orchards and gardens with reference to soils, climate, and markets; protection from insects and diseases; harvesting and marketing; styles of decorative planting adapted to home and school. *(Second semester; 3 hours.)*

Course IV.—Four-Year Normal Course.—This course is similar to that of the standard normal schools of this country. Applicants who have finished the first two years of a high school will be admitted to the first year of this course. High-school graduates will be allowed to enter the third year. Graduates of the Normal School will be admitted to the Junior class of the Teachers College and will be granted a State Certificate, provided they make an average of eighty-five per cent in all subjects during the Junior and Senior years.

CURRICULUM, FOUR-YEAR NORMAL COURSE

First Year

NAMES OF COURSES	NATURE OF WORK	HOURS PER WEEK
English NI	Rhetoric, Composition, and Classics	4
History NI	Medieval and Modern History	4
Mathematics NI	Plane Geometry	4
Take from 4 to 8 hours of the following:		
Agriculture NI	Elements of Agronomy and Horticulture	3
French NI	Beginner's Course	4
Latin NI	Beginner's Course	4
Mechanic Arts NI*a* and NII*b*	Wood Work	3
Science NI	Biology	4
Science NII	Chemistry	4
Spanish NI	Beginner's Course	4
Required		16 to 20

Second Year

English NII	American and English Literature and Composition	4
History NII	American History and Civics	4
Take from 8 to 12½ hours of the following:		
Agriculture NII	Elements of Animal Husbandry and Agricultural Engineering	3
French NII	Second Year Course	4
Latin NII	Caesar (4 books) and Composition	4
Mathematics NII	Plane Trigonometry and Solid Geometry	4
Mechanic Arts NIII*a* and NIV*b*	Forge and Foundry Work	4½
Science NIII	Physics	4
Spanish NII	Second Year Course	4
Required		16 to 20½

The third and fourth years are the same as the Freshman and Sophomore years, respectively, of the A.B. or B.S. course of the Teachers College (see pages 136 to 138), except that the foreign language courses are elective and that in the fourth year Education IV*a* and VI*b* are required.

DEPARTMENTS OF INSTRUCTION

AGRICULTURE

AGRICULTURE NI.—*Agronomy and Horticulture.*

AGRICULTURE NII.—*Animal Husbandry and Agricultural Engineering.*

EDUCATION

Professor Buchholz

EDUCATION NI.—*General Pedagogy, Reviews and Methods.* —Elementary principles of school control. Review of subjects to be taught, methods of teaching. *(4 hours.)*

EDUCATION NII.—*School Management and Methods.*—Special attention given to the management of rural schools. Methods of study and teaching. *(4 hours.)*

ENGLISH

Mr. Hathaway

ENGLISH NI.—*Composition and Classics.*—The elements of composition emphasized; grammar reviewed. Much written work required. Carefully selected list of Classics prescribed for reading and study. *(First year; 4 hours.)*

ENGLISH NII. — *Composition, Rhetoric, and Classics.* — Broader and of higher grade than English NI, which is presupposed. The structure of the sentence, the paragraph, and the connected paragraph stressed. *(Second year; 4 hours.)*

FRENCH

Mr. Hathaway

FRENCH NI.—*First Year.*—Pronunciation, reading aloud, dictation, conversation, forms, simple constructions, reading of easy selections. *(First year; 4 hours.)*

FRENCH NII. — *Second Year.* — Work of first year continued. Grammar, elements of syntax, exercises, dictation, conversation, reading of selections. *(Second year; 4 hours.)*

HISTORY

Professor Buchholz

HISTORY NI.—*Medieval and Modern History.*—The Age of Charlemagne down to the present time. Medieval history touched lightly, stress placed upon English history. Textbook and reference reading. *(First year; 4 hours.)*

HISTORY NII.—*American History and Civics.*—Early discoveries to the present time. Civics in connection with the history. Stress laid upon local history, geography, and industries; transportation and communication; organized community life and public health; local, State, and national governments. Textbook and reference reading. *(Second year; 4 hours.)*

LATIN

Mr. Hathaway

LATIN NI.—*Beginner's Latin.*—A good first-year book will be completed. *(First, second, or third year; 4 hours.)*

LATIN NII.—*Caesar, Composition, and Grammar.*—Four books of Caesar. Prose composition and grammar once a week. *(Second, third, or fourth year; 4 hours.)*

LATIN NIII.—*Cicero, Composition, and Grammar.* — Six orations of Cicero. Prose composition and grammar once a week. *(Third or fourth year; 4 hours.)*

LATIN NIV.—*Virgil, Composition, and Grammar.* — Six books of Virgil. Prose composition and grammar once a week. *(Fourth year; 4 hours.)*

MANUAL TRAINING

Acting Professor Strong

MECHANIC ARTS NI*a*.—See Wood Working *a*, College of Engineering.

MECHANIC ARTS NII*b*.—See Wood Working *b*, College of Engineering.

MECHANIC ARTS NIII*a*.—See Forge Shop, College of Engineering.

MECHANIC ARTS NIV*b*.—See Foundry, College of Engineering.

MATHEMATICS

Mr. Barney

MATHEMATICS NI.—*Plane Geometry.*—First five books in plane geometry. *(First year; 4 hours.)*

MATHEMATICS NII.—*Solid Geometry and Plane Trigonometry.*—Study of the topics covered by standard high schools. *(Second year; 2 hours each.)*

SCIENCE

Mr. Gillis

SCIENCE NI.—*Biology.*—Essentials of plant, animal, and human biology; textbook and laboratory work. Carefully kept notebooks required. *(First year; 4 hours.)*

SCIENCE NII. — *Chemistry.* — Elementary principles of chemistry; textbook and laboratory work. Carefully kept notebooks required. *(First year; 4 hours.)*

SCIENCE NIII.—*Physics.*—Elements of physics; textbook and laboratory work. Carefully kept notebooks required. *(Second year; 4 hours.)*

SPANISH

Mr. Hathaway

SPANISH NI. — *First Year.* — Pronunciation and reading aloud, dictation, conversation, forms, simple constructions, reading of easy selections. *(First year; 4 hours.)*

SPANISH NII.—*Second Year.*—Work of first year continued. Grammar, elements of syntax, exercises, dictation, conversation, reading of selections. *(Second year; 4 hours.)*

PRACTICE HIGH SCHOOL

The former Sub-Collegiate division of the University has been so widened as to make it a practice and model school for the students of education. Here student-teachers will have opportunity to observe the methods of skilled instructors, as well as to practice teaching, under guidance, the high-school subjects in which they are most interested.

ADMISSION.—Only graduates of Junior high schools, or pupils who have finished work equal to that of the tenth grade, will be admitted. No pupil will be enrolled who has not completed the course offered by the high school at his home, except upon the written application of parent or guardian, accompanied by the endorsement of his high-school principal. The number admitted to either grade is limited to twenty-five.

RESTRICTIONS.—The pupils of the Practice High School are considered boys and are not permitted to join any class, society, fraternity, athletic team, or other organization conducted for or by the University students. A pupil violating this regulation will be required to withdraw immediately from the High School. Pledging one's self to join in subsequent years a fraternity is considered a flagrant violation.

STUDIES.—The work is that of the eleventh and twelfth grades of the standard high schools of Florida. Not less than sixteen nor more than twenty hours may be taken in any one year except by special permission; all choice is subject to the approval of the Dean of the Teachers College.

HIGH SCHOOL CURRICULUM

Third Year or Eleventh Grade

NAMES OF COURSES	NATURE OF WORK	HOURS PER WEEK
*English	Rhetoric, Composition and Classics	4
*Mathematics	Plane Geometry	4
	Take from 8 to 12 hours of the following:	
Agriculture	Elements of Agronomy and Horticulture	3
French	Elementary Course	4
History	Medieval and Modern	4
Latin	Beginner's, Caesar, or Cicero and Composition	4
Manual Training	Wood Work	3
Science	Physics	4
Spanish	Elementary Course	4
Required		16 to 20

Fourth Year or Twelfth Grade

*English	American and English Literature and Composition	4
*History	American History and Civics	4
	Take from 8 to 12 hours of the following:	
Agriculture	Elements of Animal Husbandry and Agricultural Engineering	3
French	Intermediate Course	4
Latin	Caesar, Cicero, or Virgil and Composition	4
Manual Training	Forge and Foundry Work	1½
Mathematics	Solid Geometry and Plane Trigonometry	4
Science	Biology, Chemistry	each 4
Spanish	Intermediate Course	4
Required		16 to 20

*Required of all pupils.

STATE HIGH SCHOOL INSPECTION

This division was made possible thru the liberality of the General Education Board of New York. (See page 15.)

Professor W. S. Cawthon will visit and inspect the high schools of the State, and promote in every way possible their development. He will give what aid he can toward establishing high schools where they do not exist. Whenever requested, he will gladly discuss with school officials or private citizens any educational matter that may tend toward the welfare and improvement of those already established.

TEACHERS' EMPLOYMENT BUREAU

This Bureau was instituted to assist teachers who had attended the University in securing positions and to furnish schools with efficient instructors. At the request of many school officials, and because of the difficulty, due to the scarcity of trained teachers, that county superintendents and high-school principals often encounter in filling vacancies, the services of the Bureau have been placed at the disposal of every good teacher in the State. The cooperation of superintendents, principals, and teachers is invited. Officials needing trained men or women, and teachers desiring promotion or change, are asked to call upon the Bureau for its aid. No charges are made for services.

UNIVERSITY SUMMER SCHOOL

(CO-EDUCATIONAL)

June 16—August 8, 1919

June 14—August 6, 1920

FACULTY (1919).—H. W. Cox, J. N. Anderson, Miss Marie Anderson, E. C. Beck, F. B. Buchholz, L. W. Buchholz, Miss Margaret Burney, W. S. Cawthon, J. M. Chapman, C. L. Crow, P. W. Fattig, C. G. Fisher, W. L. Floyd, J. R. Fulk, W. B. Hathaway, P. H. Hensley, C. F. Hodge, W. M. Kemper, Miss Frances Kittrell, J. L. McGhee, E. W. McMullen, Mrs. J. W. Rumley, R. G. Sawyer, W. E. Sawyer, A. D. St. Amant, W. M. Tyler, Miss Orrilla Washburn, F. S. Wetzel, Geo. E. White.

GENERAL STATEMENT

The University Summer School was provided for by the "Summer School Act" passed by the Legislature of 1913.

The entire equipment of the University is at the service of the faculty and students. Ample provision is made for intellectual recreation and physical exercise. The Peabody Literary Society meets weekly; lectures or concerts are given frequently; the gymnasium, swimming-pool, baseball grounds, and tennis courts are at the disposition of the students and an instructor is at hand to direct athletic activities.

REGULATIONS.—To fulfill its highest mission the Summer School should not be utilized merely for the purpose of "cramming" for examinations. It is therefore hoped that all teachers will recognize the wisdom of the Summer-School Board in establishing the following regulations:

1. No teacher shall be allowed to take more than twenty hours per week of purely academic subjects.
2. No teacher shall take less than five hours per week of professional work.
3. The maximum number of hours per week, including professional, vocational, and academic subjects, shall, in no case, exceed twenty-seven. Two laboratory hours shall count as one hour of academic work.

CREDIT FOR WORK.—Attention is directed to the following sections of the "Summer School Act":

Sec. 5.—"All work conducted at the said Summer Schools shall be of such character as to entitle the students doing the same to collegiate, normal, or professional credit therefor, and may be applied towards making a degree."

In order to carry out the spirit of this provision, the University allows, under restrictions, a maximum of four and a half credit hours for work done at any one session of the Summer School and recognizes attendance at three sessions as satisfying the residence requirements for securing a Normal School Certificate or a degree from the Teachers College. By combining credits gained at the Summer School with those gained in the Extension Division, it is possible for a teacher to secure a certificate or a degree without losing a prohibitive amount of time from his work. Certificates and degrees secured in this way are awarded, when so desired, on the last day of a session of the Summer School.

Sec. 6.—"All teachers attending any of the Summer Schools herein created and whose work entitles them to credit therefor, upon making proof of the same to the State Superintendent of Public Instruction, are hereby entitled to one year's extension on any Florida teacher's certificate they may hold and which has not fully expired, and such certificate may be extended one year for each succeeding session attended by the said teacher."

Certificates of credit making proof of the work done will

be granted by the State Superintendent only to those teachers who attend the full term and whose work is satisfactory.

EXPENSES.—There is no charge for tuition. Board and lodging (including lights, but not pillows, bed linen, and towels) will be offered at $5.25 per week, or $40.00 for the entire session of eight weeks; board without lodging, at $4.25 per week or $32.00 per session. Children accompanying their parents will, if less than eight years of age, be charged $2.50 per week for board and lodging or $2.00 for board alone; if between eight and ten years of age, $2.50 per week for board. An infirmary fee (including payment for services of a consulting physician and of a nurse, if needed) of $0.75 will be charged. All accounts are payable in advance.

COURSES OF STUDY

Inasmuch as the courses given during the session of 1919 were fully described in the Summer School Bulletin of that year and were, furthermore, for the most part very similar in character to the corresponding ones of the Teachers College and Normal School and inasmuch as a detailed program for the session of 1920 will, as soon as it is ready, be published separately, it is thought unnecessary here to make more than mere mention of them.

The subjects taught fell into the following groups:

GROUP I.—Subjects required for County Certificates: Agriculture, Algebra, Arithmetic, Civil Government, English Grammar and Composition, Hygiene, Orthography, Pedagogy, Physical and Political Geography, Reading, United States and Florida History.

GROUP II.—Subjects required for State Certificates: Botany, English Literature, General History, Geometry, Latin (Beginner's, Caesar, Virgil, Prose Composition), Physics, Psychology, Rhetoric, Trigonometry, Zoology.

The textbooks used were those prescribed by the State. The methods employed and the ground covered were as far as possible the same as those in the Normal School, from which upon successful completion of any coure the student was entitled to credit towards a diploma.

GROUP III.—Subjects leading to special State Certificates or to a college degree: Agriculture, Business, Child Study, Drawing, Economics, Education, English, French, History,

Horticulture, Hygiene, Latin, Manual Training, Mathematics (Advanced Algebra, Plane Analytical Geometry, Trigonometry, Pedagogy of Mathematics), Penmanship, Philosophy, Primary Methods, Psychology, South American Affairs, Sociology, Spanish, Zoology.

Owing to the greater number of hours per week and the greater intensity of effort than is usual during the regular college year, more ground was covered than is ordinarily done in the same time.

GROUP IV.—Subjects of general interest not included under Group III: Bird-study, Expression and Public Speaking, Gymnastics, Music, Plays and Games, Story Telling, Swimming.

For further information or for reservation of rooms in the dormitories, address Dean H. W. Cox, University of Florida, Gainesville, Fla.

DIVISION OF MILITARY INSTRUCTION

Reserve Officers' Training Corps.

Senior Division, Infantry Unit.

Lieutenant Colonel Bloxham Ward, Infantry, U. S. Army, Professor Military Science and Tactics. Commanding the Unit.

AUTHORITY FOR.—Under the authority of the National Defense Act of June 3, 1916, creating the Officers' Reserve Corps, provision was made for establishing Reserve Officers' Training Corps units in the colleges and universities of the United States.

OBJECT.—These units were authorized by Congress for the purpose of providing officers in time of need for our citizen army. Experience has shown that the college man makes the best officer. His education enables him to grasp more readily the fundamentals of military leadership and the art of war. He is more capable of assimilating a large amount of knowledge in a brief space of time and by reason of his education is able to rise to high command.

KINDS OF UNITS.—Units may belong either to the senior or junior division and may include one or more branches of the service. That at the University of Florida is an Infantry unit of the senior division.

COURSE OF INSTRUCTION.—The War Department has laid out a standard course of instruction covering a period of four years. This is divided into a basic course and an advanced course. The basic course is compulsory for all students taking a course requiring two or more years for completion, except those registered in the College of Law, and is ordinarily taken during the Freshman and Sophomore years. The advanced course is optional; but a student who enters upon it will be required to finish, unless he leaves college, and will be required to attend one camp.

UNIFORM.—One complete uniform will be furnished each member of the unit whether he be taking the basic or the advanced course. This uniform remains the property of the Government. In the event that a student resigns from the University, his uniform and equipment will be turned in by him before leaving.

COMMUTATION OF SUBSISTENCE.—In order to encourage

students to take the advanced course, the War Department pays commutation of subsistence at a rate to be fixed by the Secretary of War. The present rate is 40 cents per day. This commutation is paid for two years from the date of signing the contract to graduation and is continuous during that period. No commutation is paid in cases where time is lost from college. This commutation, plus the saving in clothing by reason of being issued a uniform, is quite an item for those students who are paying their way thru college. It amounts actually to $271.00, which is usually more than the student can earn during the summer vacation.

CAMPS.—An opportunity will be afforded each student to attend one camp during the time he is taking the basic course, but this will be optional with him. Transportation to the camp and return, food, clothing, and medical attendance will be furnished by the Government. These camps afford a splendid opportunity for students to increase their stock of military knowledge and at the same time to enjoy an outing.

Students taking the advanced course will be required to attend one camp during that time.

PHYSICAL EXAMINATION.—All members of the unit must undergo a physical examination, and no student can be given a gratuitous issue of uniform or be paid commutation unless pronounced physically fit. The standard of requirements is as prescribed by the War Department. The examination will be held at the time and place designated by the President of the University.

COMMISSIONS.—Upon the completion of the advanced course those students who are recommended by the President of the University and the Professor of Military Science and Tactics will upon their own application be offered a commission in the Officers' Reserve Corps. They may also, at the discretion of the President of the United States, be appointed temporary second lieutenants of the regular army, for a period not to exceed six months, with pay at the rate of $100.00 per month.

UNIVERSITY CREDITS.—The following credits are allowed for classroom work:

Basic Training Course

Military Science I. One semester hour.
Military Science II. One semester hour.

Advanced Training Course

Military Science III. Two semester hours.
Military Science IV. Two semester hours.

DRILL.—In addition to the members of the R. O. T. C. all students not otherwise exempted are required by law to drill.

EXCUSED FROM DRILL.—The following only are excused from drill: Citizens of foreign countries, graduate students, Seniors who have drilled three years or have completed the basic training course at this or some other college; Juniors who have completed the basic training; law students; vocational training students (disabled soldiers); and students who are taking short courses of less than one year in Agriculture; adult special students who have passed their twenty-third birthday at the time they are first admitted will be excused by applying to the Professor of Military Science and Tactics. Other exceptions than those noted will be rarely made. Students in the Pre-Medical Course or in the Middle Course in Agriculture, altho not required to take Military Science, are not exempt from drill.

The General Faculty has enacted the following ruling on this subject:

1. The physically disqualified must submit a certificate to that effect from a reputable physician and must also, prior to graduation, make up an equivalent amount of work in this or some other department.
2. Two (2) credit hours shall be the equivalent of three hours of drill.
3. Students from other institutions entering the Junior or Senior class without having had the requisite amount of physical instruction, shall, unless physically disqualified, be required to take military science and drill for two (2) years, or one (1) year, respectively, excepting that in the Senior year a study equivalent may be submitted for drill.
4. Pupils entering the eleventh or twelfth grade of the Practice High School shall be excused after drilling three (3) years here.

REGISTRATION FOR DRILL.—All students entering the University each year will be required to register for drill. Cards will be issued for that purpose from the office of the registrar. Those students who are in exempted classes, such as law, vocational training, etc., will simply write those words across the face of the cards and sign and return them to the registrar.

All other students will fill out the cards completely before turning them in at the same place. Students who have already signed the contract to take the advanced course in the R. O. T. C. need not register for drill, but will report in person to the Professor of Military Science and Tactics within 48 hours after registration.

CREDITS.—Credit for work in an R. O. T. C. unit similar to the one at the University of Florida will be given to all students who present duly authenticated credentials. Similar credit, year for year, will be given for drills at any institution of learning where officers of the U. S. Army are detailed for duty as instructors.

DIVISION OF REHABILITATION

Professor Buchholz, Counselor

It is the aim of the instructors to discover and to cultivate the talent of the Rehabilitation Men and thus to prepare them to fill successfully their stations in life.

Special courses in arithmetic, reading, writing, and elementary agriculture are given to those who have not finished the common-school grades. Provision is even made for those who can neither read nor write.

COLLEGE OF AGRICULTURE

The Dean and the Counselor aid the student in selecting his studies, so that the knowledge acquired may be of the greatest practical value to him after the completion of his work at the University.

Men able to satisfy the entrance requirements may select from the courses offered in this College. Those who have completed the tenth grade, or its equivalent, are advised to enter upon the Middle Course in Agriculture (see pages 91 to 93). Deficiencies in entrance requirements may be made up in the Practice High School of the Teachers College and Normal School.

For those who have finished the common-school branches there has been arranged the following:

NAMES OF COURSES	NATURE OF WORK	*HOURS PER WEEK	
Agricultural Education I	Library Work	1	0
Agricultural Education II	Agricultural Organizations	0	1
Agricu'l Engineering II	Farm Motors	2	0
Agronomy A	Elements of Agronomy	3	0
Agronomy B	Fertilizers	0	3
Animal Husbandry A	Elements of Animal Husbandry	3	0
Animal Husbandry B	Elements of Dairying	0	3
Bee Culture	Elements of Bee Culture	0	3
Dairying I	Dairy Products	3	0
Horticulture I	Plant Propagation	2	2
Horticulture II	Trucking	2	2
Horticulture IV	Citrus Culture	3	0
Horticulture V	Citrus Harvesting and Marketing	0	3
Horticulture VI	Insects and Diseases of Citrus Fruits	3	0
Poultry Husbandry I	Farm Poultry	0	3
Veterinary Science I	Veterinary Elements	0	3
		22	23

COLLEGE OF ENGINEERING

Vocational men able to satisfy entrance requirements may select from the courses offered in this College.

Those who have finished plane trigonometry may also enter for advanced courses and, if they wish to become candidates for a degree, may make up deficiencies in entrance requirements in the University Practice High School.

Ambitious students who have finished the eighth grade may select from the following:

NAMES OF COURSES	NATURE OF WORK	*HOURS PER WEEK	
Auto Mechanics	Practical Maintenance and Repair of Motor Vehicles		
Forge Ia	Blacksmithing	3	0
Machine Shop	Use of Machine Tools	6	0
Mechanical Drawing	The Use of Ordinary Drawing Instruments	4	4
Elementary Wood Carving	Furniture Construction	0	6
Woodworking	Carpentry and Wood Turning	6	0

*The first column gives the hours per week for the first semester, the second column the hours per week for the second semester.

COLLEGE OF LAW

Men who cannot satisfy the entrance requirements will be admitted as adult specials.

TEACHERS COLLEGE AND NORMAL SCHOOL

Men who can satisfy the entrance requirements may select courses preparing for teaching Agriculture, Trades and Industries, or the usual high-school subjects; others, if they have finished the eighth grade, may enter upon courses preparing for teaching in elementary schools.

EXTENSION SERVICE

The aim of the modern university or college is to serve not only a group of qualified resident students, but all the people in the commonwealth supporting it. Consequently, in order to reach people living at a distance, an Extension Service has been established, made up of an Agricultural and a General Extension Division representing the University of Florida and the State College for Women.

The work of the Agricultural Extension Division will be found described on pages 98 to 107; a Home Demonstration Division is maintained at the College for Women; the work of the General Extension Division is carried on thru the Director's office at Gainesville.

GENERAL EXTENSION DIVISION

B. C. RILEY, *Director*

STAFF.—B. C. Riley, E. M. Allison, C. F. Davis, C. L. Fisher, M. E. Foley, C. F. Hodge, J. A. Keeler, E. Pratt, the faculties of the University of Florida and of the State College for Women cooperating.

The General Extension Division carries on extension activities for the Colleges of Arts and Sciences, Education, Engineering, and Law of the University, and the College of Arts and Sciences and the Schools of Education, Physical Education, and Music of the State College for Women. The work has been divided into four departments:

I. Extension Teaching.
II. Public Welfare.
III. Instruction by Lectures and Public Discussion.
IV. General Information.

EXTENSION TEACHING

The Extension Teaching Department has been designed to give to all who cannot attend the University or College an opportunity to get instruction which may be a help and pleasure to them. This work is carried on thru (1) correspondence, (2) class, and (3) club.

CORRESPONDENCE.—Correspondence study offers to everyone an excellent opportunity to advance in his vocation, obtain a degree, or to take courses for culture.

Review courses for teachers, high-school work for students in rural communities, college work for busy men and women, special vocational and trade courses for those who wish to advance in their line of work, and reading courses for those on the farm, in the shop, office, and home are offered. Many courses are given by the University thru the Colleges of Arts and Science, Education, Engineering, and Law; while special work is given in Journalism and Business. At the College for Women, the College of Arts and Science and the Schools of Education, Physical Culture, and Music also offer correspondence courses.

CLASS.—Wherever possible, extension classes in technical or cultural subjects will be organized. The work will be supervised by faculty members of the University or of the State College for Women.

CLUB. — Thru club-study associated groups of people are given an opportunity to study and to keep in touch with the latest thought on cultural and professional subjects. A definite plan for cooperative study under a faculty member is provided.

PUBLIC WELFARE

Thru the Public Welfare Department short courses, community institutes and conferences, health instruction and surveys will be organized and directed by the General Extension Division. Assistance will also be given to all clubs, societies, public boards, and other agencies working for the public good and community advancement.

SHORT COURSES.—Courses in Americanization and Social Service will be conducted at prominent places in the State for the benefit of all citizens and volunteer workers who desire not only information, but also an opportunity to equip themselves to help teach all of our people to become one-hundred-percent American. Short courses in business, trade, and industry will also be conducted.

COMMUNITY INSTITUTES AND CONFERENCES.—Thru conferences, commercial clubs, churches, women's clubs, parent-teachers' associations, and other organizations working toward community betterment will be brought together in order to avoid duplication of effort. Thru the community institute an opportunity will be given to make systematic investigation, to carry on necessary discussion, and to focus the attention of the

whole community along the lines most needed to make the home town the best of places in which to live.

HEALTH INSTRUCTION.—The Bureau of Health Instruction offers work in Civic Biology and Nature Study to clubs and schools, in an effort to acquaint our people with the best means of avoiding preventable diseases and of controlling epidemics.

SURVEYS.—Plans are under way for conducting surveys, along lines most needed, in different parts of the State. From these, it is hoped, much valuable information will be made available.

INSTRUCTION BY LECTURES AND PUBLIC DISCUSSION

Since the mass of our citizens must get much of their instruction and information and must formulate their opinions on present-day questions concerning the community, state, and nation thru lectures and public discussion, a lecture bureau is maintained by the Division and every effort is made to encourage people to get together in a community forum, in order that a majority decision may be reached and action may be taken.

LECTURE BUREAU.—The University offers thru this Bureau lectures by prominent citizens, faculty members, and speakers from other universities and states. These lectures are technical, informational, or inspirational in character. When ample notification is given, speakers will be furnished to women's clubs, commercial clubs, for teachers' institutes, commencement addresses, and other special occasions.

It is hoped that in another year the Division can act as a clearing-house for lecture-course talent, thus enabling communities to secure this educational feature at cost.

PUBLIC DISCUSSION BUREAU.—To assist in the development of the community forum and the revival of the old-time debating societies, material will be lent on current questions and present-day problems and suggestions will be given for organization and program building.

GENERAL INFORMATION

In addition to disseminating the stores of information obtainable thru the faculties of the University of Florida and of the State College for Women, the General Extension Division will attempt to make available in a form easily understood by the layman, the great fund of knowledge obtainable thru

the various state and government boards and bureaus for the benefit of the individual and the community. Every effective means of carrying this information to the people will be employed. Under this Department are found (1) the Bureau of Public Information, (2) the Bureau of Community Music and Drama, (3) the Bureau of Visual Instruction, and (4) the Educational Information Bureau.

BUREAU OF PUBLIC INFORMATION.—This Bureau will, in answer to reasonable requests for help on any problem confronting the individual or community, act as a clearing-house for all kinds of information.

BUREAU OF COMMUNITY MUSIC AND DRAMA.—The development of community recreation is one of Florida's greatest needs; consequently, instruction and information will be given thru this Bureau, in an effort to help develop local talent. Thru community recreation people get together and come to understand each other, greater cooperation for community betterment is the result.

Thru this Bureau, plays, recitations and pageants will be lent to societies, clubs, and schools; and information will be furnished that will help in working up dramatics and special programs.

Talking-machine records, in sets making up complete programs and accompanied by lecture material, will be furnished to farmers' clubs, women's organizations, churches, and schools.

VISUAL INSTRUCTION BUREAU. — Instruction thru the medium of the eye is known to be one of the most effective ways of reaching many people; therefore, by cooperating with the large corporations, bureaus, and departments of the United States Government, the General Extension Division can supply clubs, schools, and communities with slides and motion-picture reels for instruction and entertainment. Lecture outlines accompany the slides.

EDUCATIONAL INFORMATION BUREAU.—Thru this Bureau questions concerning school problems will be answered and special effort will be made to render service to officials seeking information on school buildings and equipment by furnishing data concerning work done and results obtained by the various communities in the State. The Bureau will not make suggestions, but will act merely as a clearing-house for in-

formation furnished by the schoolmen of the State for the benefit of others.

Address all communications to the Director, General Extension Division, University of Florida.

REGISTER

DEGREES AND CERTIFICATES

JUNE 3, 1919

HONORIS CAUSA

Doctor of Laws

Edward Rawson Flint, Ph.D.
U. S. Dept. of Agriculture, Washington, D. C.
Fons A. Hathaway, A.B.
Supt. of Public Instruction, Duval County.
George Morgan Ward, D.D.
Acting President Rollins College, Winter Park.

IN COURSE

Master of Arts

Robertson, Charles Archibald, A.B. ..... Tallahassee, Fla.

Master of Science

Huff, Otis Pascal (1917) ..... Laurens, S. C.

Master of Science in Agriculture

Lauphit, Tse, B.S.A. (Illinois) ..... Shanghai, China

Mechanical Engineer

Taylor, Earle Abbott, B.S.M.E. ..... Gainesville, Fla.

Bachelor of Arts

Gordon, Horace Cadwell, Jr. ..... Tampa, Fla.
Hampton, Edwin Birkett ..... Gainesville, Fla.
Skinner, Laurence Harvey ..... Alachua, Fla.

Bachelor of Arts in Education

Crofton, Lemuel Curtis ..... Chipley, Fla.
Diamond, Emory Gayle ..... Jay, Fla.

Bachelor of Laws

Perry, Wallace Frederick ..... Fruitland Park, Fla.
Stanley, Zachariah Jay, A.B. (Earlham) ..... Liberty, Ind.
Veloso, Juan Avila ..... Cebu, Philippines

Bachelor of Science

Knowles, Frederick Louis (1918) ..... Key West, Fla.
Levis, Norris Kessler (1918) ..... Sanford, Fla.
Palmer, Thomas Myers ..... Tallahassee, Fla.
Smith, Charles Frederick, Jr. ..... Gainesville, Fla.
Turnley, William Henry ..... Ft. Meade, Fla.

Bachelor of Science in Agriculture

Barkwell, Everett Wilson ..... Crooked Lake, Fla.
Camp, Paul Douglas ..... White Springs, Fla.
Crosby, Ralph ..... San Mateo, Fla.
Hodges, Lowell Mason ..... Greenwood, Fla.
Johnson, Charles McCoy ..... Jacksonville, Fla.
Stoutamire, Ralph ..... Tallahassee, Fla.

Bachelor of Science in Civil Engineering

McCallum, Hugh Haynsworth ..... Jacksonville, Fla.

Bachelor of Science in Electrical Engineering

Pinto, DeOclecio de Oliveira ..... San Paulo, Brazil
Whitfield, John Nash ..... Tallahassee, Fla.

Bachelor of Science in Mechanical Engineering

Heller, Morris ..... Havana, Cuba

Graduate in Farming

Scofield, Joseph Washington.....Inverness, Fla.

AUGUST 8, 1919

Master of Arts in Education

Frye, Thomas Craddock, A.B. (Berea).....Gainesville, Fla.

Bachelor of Arts in Education

Rider, Amzi Leech.....Tallahassee, Fla.

Bachelor of Science in Agriculture

Wang, Chin Wu.....Honan, China

Bachelor of Science in Electrical Engineering

Crosby, Alden Bailey.....San Mateo, Fla.

Normal School Certificate

Cawthon, Mrs. Anne Whilden.....Gainesville, Fla.
Haseltine, Hubert Arthur.....Tampa, Fla.
McKay, Glenn E.....Key West, Fla.
McKay, Mrs. Katherine McMahon.....Key West, Fla.
Miles, Frank Duncan.....Darlington, Fla.

PHI KAPPA PHI

1919

Diamond, Emory Gayle.....Teachers

1920

Axelson, John Newton.....Engineering
Barns, Paul.....Law
Coleman, John Alexander.....Arts and Sciences
DeFlorin, William Victor.....Engineering
DeSilva, Harry Reginald.....Teachers
DeVane, Claude Lee.....Agriculture
Gordon, Horace Cadwell.....Law
Hampton, Edwin Birkett.....Law
Hollinrake, Seth Westlake.....Arts and Sciences
Hurlebaus, Edward Hughson.....Agriculture
Kent, Selden Gourley.....Engineering
Lichliter, Cecil Houston.....Law
Massaro, Alfonso Ferraro.....Arts and Sciences
Paxton, Earle Barbour.....Engineering
Roberts, George Carl.....Agriculture
Scofield, Jos. Washington.....Agriculture
Wilson, Leo Hughes.....Agriculture
Wolfson, Abraham Maurice.....Arts and Sciences

MEDALS AND PRIZES

Declaimer's Medal.....T. D. Sale
Junior Orator's Medal.....H. R. DeSilva
Senior Orator's Medal.....E. G. Diamond
Faculty Loving Cup.....Farr Literary Society

ROLL OF STUDENTS

1919-1920

The abbreviations used are: A. & S., College of Arts and Sciences; Ag., College of Agriculture; Ag. 4-mo., 1-yr., or 2-yr., Four Months, One-Year, or Two-Year Course, respectively, in Agriculture; Eng., College of Engineering; Fed. Voc., Federal Vocation; Grad., Graduate Student; Grad. Ed., Graduate Student in Education; L., College of Law; Nor., Normal School; P. H. S., Practice High School; Pre-Med., Pre-Medical Course; Sp., Special Student; T., Teachers College.

The numerals indicate the class (1, Freshman; 2, Sophomore; 3, Junior; 4, Senior) except after L., where it denotes the number of years the student has been enrolled in the College of Law.

Name	*Classification*	*Postoffice*	*County or State*
Adams, A. L.	L. 2	DeFuniak Springs	Walton
Albright, G. W.	Ag. 4-mo.	Orlando	Orange
Alderman, G. C.	A. & S. 4	Lake Butler	Bradford
Alderman, J. M.	L. 1	Bradentown	Manatee
Alger, J. W.	Ag. 2-yr.	Eustis	Lake
Almond, J. D.	Eng. 3	Fort Pierce	St. Lucie
Ames, A. A.	A. & S. 1	St. Petersburg	Pinellas
Ames, B. W.	Ag. 1	Kissimmee	Osceola
Anderson, B. G.	Eng. 1	Orlando	Orange
Anderson, C. A.	A. & S. Sp.	Palatka	Putnam
Anderson, C. P.	Ag. 3	Ben Avon	Pennsylvania
Archer, B. E.	A. & S. Sp.	Jacksonville	Duval
Armstrong, N. B.	T. 1	Lake Butler	Bradford
Ashmore, J. P.	A. & S. 1, Ag. 1	Ben Haden	Wakulla
Auld, J. E.	Ag. 2	Buena Vista	Dade
Axelson, J. N.	Eng. 4	Pensacola	Escambia
Ayers, M. B.	Ag. 4-mo.	New York	New York
Bache, H. F.	A. & S. 4	Chattahoochee	Gadsden
Badcock, W. S.	Eng. 1, L. 1	Mulberry	Polk
Bailey, H. S.	L. 3	Lynn Haven	Bay
Bailey, O. W.	Fed. Voc., Ag. 1-yr.	Trenton	Alachua
Baker, P. O.	Ag. 2-yr.	Thonotosassa	Hillsborough
Ball, L. H.	A. & S. 2	Tampa	Hillsborough
Barco, C. K.	Eng. 2	Gainesville	Alachua
Barker, H. L.	Eng. Sp.	Miami	Dade
Barney, C. S.	Grad. Ed.	Union City	Tennessee
Barnhill, W. B.	Fed. Voc., Ag. Sp.	Baker	Okaloosa
Barns, P. D.	L. 3	Largo	Polk
Bartlett, N. B.	Nor. 2	St. Cloud	Osceola
Barwick, L. H.	Eng. 2	Delray	Palm Beach
Bass, W. C.	Ag. 1	Kissimmee	Osceola
Bassett, A. E.	Fed. Voc., Ag. Sp.	St. Petersburg	Pinellas
Battle, G. C.	Eng. 1	Sorrento	Lake
Beach, Hubert	A. & S. 1	Groveland	Lake
Beeghly, E. J.	Ag. 1, Nor. 1	Jacksonville	Duval
Beggs, E. D.	L. 3	Pavo	Georgia
Bell, J. J., Jr.	A. & S. 1	Brooksville	Hernando
Bell, W. L.	Ag. 1	Eustis	Lake
Benjamin, L. E.	Eng. Sp.	Gainesville	Alachua
Bennett, W. L.	A. & S. 2	Jacksonville	Duval
Berg, O. M.	A. & S. 1	Arcadia	DeSoto
Berry, L. C.	Eng. 1	Jacksonville	Duval
Biddle, P. H.	T. 2	DeFuniak Springs	Walton
Bie, O. R.	Eng. 1	Tampa	Hillsborough
Bishop, A. K.	Ag. 4	Eustis	Lake
Bishop, J. E.	Fed. Voc., Ag. Sp.	Summertown	Georgia
Bivens, W. J.	L. 2	Tampa	Hillsborough
Blackburn, L. L.	T. 4	Bowling Green	DeSoto
Blake, E. S.	Pre-Med. 1	Chipley	Washington

Name	Classification	Postoffice	County or State
Blount, C. D.	Ag. 2-yr.	Jacksonville	Duval
Blount, W. E.	Ag. 2, L. 1.	Ft. Myers	Lee
Blume, J. V.	Ag. 2.	Live Oak	Suwanee
Bond, R. E.	Eng. 1.	Lansing	Michigan
Booth, D. E.	Eng. 1.	St. Petersburg	Pinellas
Boozer, R. L.	Nor. 1.	Lake City	Columbia
Boring, E. W.	L. 2.	Waldo	Alachua
Bostwick, W. M.	Eng. 1.	Jacksonville	Duval
Boswell, E. R.	Eng. 2.	Inverness	Citrus
Boyd, R. U.	Pre-Med. 1.	Gainesville	Alachua
Boynton, L. O.	L. 3.	Bartow	Polk
Bozarth, E. P.	Pre-Med. 1.	Kissimmee	Osceola
Bowen, Reeves	A. & S. 1.	Chipley	Washington
Bowyer, E. N.	L. 1.	Lakeland	Polk
Braddock, E. C.	Fed. Voc., Ag. Sp.	Crescent City	Putnam
Bradley, F. M.	Ag. 2-yr.	Bartow	Polk
Bradshaw, B. M.	T. 1.	Delray	Palm Beach
Bradshaw, V. M.	A. & S. 1.	San Antonio	Pasco
Brash, V. G.	Eng. 1.	Tampa	Hillsborough
Bratley, H. E.	T. 3, Ag. 3	Miami	Dade
Broda, D. F.	A. & S. Sp.	Tampa	Hillsborough
Brooks, E. J.	A. & S. 1.	Columbus	Georgia
Brown, A. T.	Ag. 2.	Wauchula	DeSoto
Brown, J. C.	Fed. Voc., Ag. 1-yr.	Sopchoppy	Wakulla
Brown, J. F.	Fed. Voc. Ag. 1 yr.	Fairfield	Marion
Brown, J. M.	Eng. 1.	Mayo	Lafayette
Brown, J. O., Jr.	L. 1.	Palmetto	Manatee
Brown, T. R.	A. & S. 1.	Arcadia	DeSoto
Bryson, W. B.	Eng. 1.	Live Oak	Suwanee
Bullock, W. J.	Nor. 2.	Arcadia	DeSoto
Bunch, G. L.	Nor. 1.	Pavo	Georgia
Bunnell, M. F.	Eng. 1.	Orlando	Orange
Burr, R. T.	Ag. 1.	Arch Creek	Dade
Burton, R. P.	A. & S. 1.	Emeralda	Lake
Bushnell, B. E.	Eng. 4.	Tampa	Hillsborough
Bushnell, H. H.	Eng. 4.	Pensacola	Escambia
Buzbee, E. B.	Nor. 1.	Williston	Levy
Byrd, C. Y.	Eng. 1, L. 1.	Live Oak	Suwanee
Calhoun, G. A.	Eng. 1.	Pensacola	Escambia
Callahan, J. S.	Fed. Voc., Ag. Sp.	Philadelphia	Pennsylvania
Camargo, F. C.	Ag. Sp.	Piracicaba, S. Paulo	Brazil
Cannon, W. E.	A. & S. 1.	Gainesville	Alachua
Canova, F. A.	Ag. 2	Starke	Bradford
Carlton, R. A.	Ag. 1.	Knights	Hillsborough
Carlton, T. H.	L. 1.	Wauchula	DeSoto
Carn, M. N.	P. H. S.	Ocala	Marion
Caro, A. R.	A. & S. Sp., L. 1.	Pensacola	Escambia
Carpenter, A. E.	A. & S. Sp., L. 1.	Orlando	Orange
Carter, J. H., Jr.	L. 1.	Marianna	Jackson
Caruso, J. J.	L. 3.	Wilmington	Delaware
Carvalho, R. S.	Ag. Sp.	Rio de Janeiro	Brazil
Cason, S. W.	T. 2.	Otter Creek	Levy
Cassels, W. M.	Fed. Voc., Ag. 1-yr.	Bay Lake	Marion
Cates, W. H.	A. & S. 4.	Tallahassee	Leon
Cathey, W. C.	Nor. 1.	Lake City	Columbia
Chaires, T. P., Jr.	Nor. 1.	Old Town	Lafayette
Chambers, M. M.	A. & S. 2.	Mt. Vernon	Ohio
Chardkoff, A.	A. & S. 1.	Tampa	Hillsborough
Childs, C. A.	Pre-Med. 1.	St. Petersburg	Pinellas
Christiance, D. L.	Ag. 3.	Cocoanut Grove	Dade

Name	Classification	Postoffice	County or State
Clark, J. T.	Eng. 3	Tampa	Hillsborough
Clark, W. H.	Ag. 2	Wall Springs	Pinellas
Clayton, B. L.	L. Sp.	Rockledge	Brevard
Clemons, J. G.	Ag. 4	Plant City	Hillsborough
Coates, G. M.	Ag. 4-mo.	Ft. Meade	Polk
Coates, J. F.	L. 3	Sanford	Seminole
Cobb, J. H.	Fed. Voc., Ag. 1-yr.	Kissimmee	Osceola
Cobb, L. H.	Eng. 1	Milton	Santa Rosa
Cody, W. J.	A. & S. 1	Crooked Lake	Polk
Coe, R. F.	Pre-Med. 1	St. Petersburg	Pinellas
Cogburn, P. H.	Nor. 4	Cottondale	Jackson
Cohen, M. S.	A. & S. 1	Miami	Dade
Cole, H. W.	Ag. 2-yr.	Bartow	Polk
Coleman, J. A.	A. & S. 4	Plant City	Hillsborough
Coleman, L. A.	Ag. 4-mo.	Lucerne Park	Polk
Coleman, R. V.	Eng. 1	Plant City	Hillsborough
Connell, H. R.	A. & S. 2	Orlando	Orange
Cook, C. E.	Eng. 1	Newberry	Alachua
Cooper, A. C.	Eng. 1	Tampa	Hillsborough
Cooper, H. A.	L. 1	Miami	Dade
Cooper, R. F.	Ag. 2, T. 2	Mars Hill	North Carolina
Copeland, G. R.	A. & S. Sp., L. 1	St. Petersburg	Pinellas
Covington, T. D.	L. 1	Quincy	Gadsden
Cox. J. O.	A. & S. 1	Gainesville	Alachua
Cox, R. A.	A. & S. 1	Gainesville	Alachua
Cox, W. T.	Eng. 2	Miami	Dade
Coxe, C. C.	A. & S. 3	St. Augustine	St. Johns
Crago, Arthur	A. & S. 2	Ocala	Marion
Craig, R. A.	Ag. 1-yr.	Wilmington	North Carolina
Crews, S. L.	Fed. Voc., Ag. 1-yr.	Lake Butler	Bradford
Crippen, H. O., Jr.	Nor. 1	Jacksonville	Duval
Crofton, L. C.	L. 1	Chipley	Washington
Curtis, Gilbert	Eng. 2	Tampa	Hillsborough
Curtiss, C. H.	Ag. 1	Detroit	Michigan
Daffin, M. J.	Nor. 1	Millville	Bay
Dalton, J. W.	A. & S. 4	Tampa	Hillsborough
Dancy, M. F.	A. & S. Sp.	Arcadia	DeSoto
Daniel, W. E.	A. & S. 4	Pensacola	Escambia
Daniels, Coley	Fed. Voc., Ag. Sp.	Kinard	Calhoun
Dansby, G. W.	Ag. 4, T. 4	Reddick	Marion
Davis, F. M.	Ag. 2-yr.	Madison	Madison
Davis, H. J., Jr.	A. & S. 1	Quincy	Gadsden
Davis, N. B.	A. & S. 4	Palatka	Putnam
DeFlorin, W. V.	Eng. 4	Jacksonville	Duval
DeSilva, H. R.	T. 4	Pensacola	Escambia
DeVane, C. L.	Ag. 4	Plant City	Hillsborough
DeVane, E. E.	Ag. 1-yr.	Plant City	Hillsborough
DeVane, F. M.	L. 3	Plant City	Hillsborough
DeVane, G. A.	Ag. 1	Plant City	Hillsborough
DeWolf, A. B.	Eng. 2	Crescent City	Putnam
Dial, J. C.	Eng. 1	Gainesville	Alachua
DiCorte, F. V.	Pre-Med. 2	Tampa	Hillsborough
DiMaggio, N. J.	Pre-Med. 1	Tampa	Hillsborough
DiMaio, A. J.	L. Sp.	Ybor City	Hillsborough
Dimberline, Thos.	Ag. 4-mo.	Sebring	DeSoto
Dodson, C. L.	A. & S. 1	Clearwater	Pinellas
Donaldson, M. G.	T. 3	Shady Grove	Taylor
Dopson, W. A.	L. 3	Sanderson	Baker
Douglas, Z. H.	L. 1	Gainesville	Alachua
Douglass, W. D.	Eng. 1	Laurel Hill	Okaloosa

Name	Classification	Postoffice	County or State
Dowdell, R. L.	Ag. 1	Wimauma	Hillsborough
Dowling, J. G.	A. & S. 1	Green Cove Springs	Clay
Drew, E. H.	A. & S. 1	Jacksonville	Duval
Drew M. N.	Eng. 1	Madison	Madison
Driggers, R. L.	Ag. 3	Ft. Green	DeSoto
Driver, J. P.	A. & S. 4	Citra	Marion
Duckworth, R. E.	A. & S. 2	Orlando	Orange
Duncan, C. E.	A. & S. 3	Tavares	Lake
Duncan, K. G.	A. & S. 2	Lake Butler	Bradford
Durrance, F. Y.	T. 4	Arcadia	DeSoto
Dye, D. A.	L. 3	Bradentown	Manatee
Dyer, W. J.	Ag. 2	West Palm Beach	Palm Beach
Ebinger, R. J.	A. & S. 1	Tampa	Hillsborough
Edrehi, J. M.	L. 2	Pensacola	Escambia
Edwards, E. F.	Nor. 1	Chattahoochee	Gadsden
Edwards, H. L.	A. & S. 1	Kissimmee	Osceola
Edwards, W. W.	A. & S. 1	Cordele	Georgia
Ellsworth, L. H.	Ag. 2	Dade City	Pasco
Ennis, J. G.	Eng. 1	Starke	Bradford
Etheredge, J. T.	Eng. 1	DeSoto City	DeSoto
Farnall, G. P.	Fed. Voc., Nor. Sp.	Chattanooga	Tennessee
Feaster, B. L.	Eng. 3	Micanopy	Alachua
Ferguson, T. S.	A. & S. 2	Lake City	Columbia
Fernald, H. J.	Fed. Voc., Ag. 2-yr.	Melrose	Massachusetts
Ferris, G. F.	Eng. 1	Jacksonville	Duval
Fleming, E. E.	L. 1	Milton	Santa Rosa
Fletcher, V. W.	Pre-Med. 1	Greensboro	Gadsden
Ford, G. P.	Eng. 1	Ft. Pierce	St. Lucie
Ford, H. G.	Eng. 3	Tampa	Hillsborough
Franklin, J. A.	L. 2	Jacksonville	Duval
Friedlander, H. M.	A. & S. 3	Indian Rocks	Pinellas
Fry, O. P.	Eng. 1	St. Petersburg	Pinellas
Fuller, Henry	A. & S. 1	Nichols	Polk
Fuller, Landon	Eng. 1	Nichols	Polk
Fussell, C. W.	A. & S. 1	Webster	Sumter
Futch, D. J.	A. & S. 1	Lake City	Columbia
Garner, I. A.	A. & S. 1	Lake City	Columbia
Garrett, S. L.	Nor. 1	Milligan	Okaloosa
Gaskin, S. G.	A. & S. 1	Blountstown	Calhoun
Gay, H. O.	Ag. 1	Trenton	Alachua
Geiger, A. J.	Ag. 1	Jasper	Hamilton
Geiger, J. C.	Fed. Voc., A. & S. Sp.	Jasper	Hamilton
Geiger, T. J.	Ag. 1	Jasper	Hamilton
Getzen, S. W.	L. 3	Webster	Sumter
Getzen, T. H.	L. 3	Webster	Sumter
Gill, B. D.	A. & S. 3	Jacksonville	Duval
Gillen, P. H.	A. & S. 1	Ocala	Marion
Gillis, A. A.	Eng. 1	Ponce de Leon	Holmes
Gillis, J. A.	T. 4	Ponce de Leon	Holmes
Gleason, W. L.	A. & S. Sp., L. 1	Eau Gallie	Brevard
Goldsby, J. K.	Ag. 4	Ft. Myers	Lee
Gordon, Harry	Eng. 2	Miami	Dade
Gordon, H. C.	L. 3	Tampa	Hillsborough
Gordon, R. H.	A. & S. 2	Tampa	Hillsborough
Graham, A. S.	Pre-Med. 1	Columbia	South Carolina
Graham, P. H.	P. H. S.	Piedmont	West Virginia
Gray, G. W.	L. 1	Orlando	Orange
Gray, H. C.	Fed. Voc., Ag. Sp.	Hawthorn	Alachua
Gray, H. L., Jr.	Pre-Med. 1	Gainesville	Alachua
Green, C. S.	L. Sp.	Pomona	Putnam

Name	Classification	Postoffice	County or State
Green, T. P	A. & S. 1	Tampa	Hillsborough
Gregory, B. G	Ag. 2	Newberry	Michigan
Griffith, R. C	A. & S. 4	St. Petersburg	Pinellas
Griffin, G. L	Fed. Voc., Ag. Sp.	Auburndale	Polk
Gunn, E. F	Eng. 1	Jacksonville	Duval
Gunn, J. R	Ag. 4. T. 3	Gainesville	Alachua
Gunn, W. W	Eng. 3	Gainesville	Alachua
Gurney, J. A	Fed. Voc., Ag. 1-yr.	Jacksonville	Duval
Hall, C. S	Eng. 1	Miami	Dade
Hall, H. A	Grad.	Gainesville	Alachua
Hall, J. F	Fed. Voc., L. Sp.	Tallahassee	Leon
Hall, R. L	A. & S. 1	Citra	Marion
Hamilton, A. H	Ag. 1-yr.	Plant City	Hillsborough
Hamilton, G. C	T. 2	Pace	Santa Rosa
Hamilton, H. G	Ag. 3	Humboldt	Tennessee
Hampton, E. B	L. 3	Gainesville	Alachua
Hanford, G. W	Eng. 1	Miami	Dade
Hansbrough, J. H	A. & S. Sp.	Tampa	Hillsborough
Hansen, S. C	Ag. 4	Ft. Myers	Lee
Hardee, C. J	L. 2	Madison	Madison
Hargrave, R. T	Eng. 4	St. Petersburg	Pinellas
Harris, Pete	A. & S. 1	Tampa	Hillsborough
Harrison, W. M	Nor. 1	Cottondale	Jackson
Hart, C. G	Ag. 1-yr.	Ft. Pierce	St. Lucie
Hartman, G. W	Eng. 3	Pensacola	Escambia
Hartridge, J. E	L. Sp.	Jacksonville	Duval
Hatton, Rondo	A. & S. Sp.	Tampa	Hillsborough
Hauser, C. R	Eng. 1	Miami	Dade
Hauser, M. G	Eng. 1	Tampa	Hillsborough
Haywood, W. H	Fed. Voc., Ag. Sp.	Kansas City	Missouri
Hearn, J. M	Ag. 2	Homestead	Dade
Heitzman, F	Fed. Voc., Ag. Sp.	Gainesville	Alachua
Henderson, G. L	A. & S. 1	Tallahassee	Leon
Henderson, J. W	Eng. 1	Plant City	Hillsborough
Hendley, T. D	A. & S. 1	Inverness	Citrus
Hernandez, Lonnie	Fed. Voc., Ag. Sp.	Jacksonville	Duval
Heuck, C. P	Ag. 3	Vero	St. Lucie
Hiatt, C. R	Ag. 2-yr.	Gainesville	Alachua
Hill, E. L	Fed. Voc., P. H. S.	Maitland	Orange
Hill, F. D., Jr	Eng. 1	Miami	Dade
Hobbs, J. M	Fed. Voc., Ag. Sp.	St. Augustine	St. Johns
Hoffner, C. C	Eng. 1	Pine Castle	Orange
Hogarth, L. A	Eng. 2	Stuart	Palm Beach
Holland, H. W	L. 1	Pensacola	Escambia
Holley, F. N., Jr	A. & S. 2	Apalachicola	Franklin
Hollinrake, A. T	A. & S. 1	Ocala	Marion
Hollinrake, S. W	A. & S. 4	Ocala	Marion
Holloway, L. C	Pre-Med. 2	Tallahassee	Leon
Hook, E. L	Eng. 1	Homestead	Dade
Hook, H. C	Eng. 1	Homestead	Dade
Hopkins, S. T	A. & S. 1	Sherwood	Maine
Hopkins, W. B	Ag. 4	Tallahassee	Leon
Hoskins, R. B	A. & S. Sp.	Tampa	Hillsborough
Hough, H. R	Ag. 1	Gretna	Gadsden
Howard, R. M	Ag. 2	Tallahassee	Leon
Hubbard, Donald	Eng. 1	Terra Ceia	Manatee
Hubbard, McCoy	Eng. 3	Terra Ceia	Manatee
Hudson, T. A	Fed. Voc., Ag. 1-yr.	Vernon	Washington
Huff, V. E	Eng. Sp.	Gainesville	Alachua
Hughes, K. F	Eng. 3	Orlando	Orange

Name	Classification	Postoffice	County or State
Hughes, R. H.	T. 2	Ponce de Leon	Holmes
Hull, W. P.	Fed. Voc., Ag. 1-yr.	Pine Level	DeSoto
Hume, E. B.	Pre-Med. 1	St. Petersburg	Pinellas
Hunt, D. A.	Fed. Voc., Ag. Sp.	Cincinnati	Ohio
Hunter, F. R.	A. & S. 1	Ft. Myers	Lee
Hunter, R. B.	Eng. 2	Tampa	Hillsborough
Hurlebaus, E. H.	Ag. 4	Bradentown	Manatee
Hurst, J. B.	A. & S. 2	Miami	Dade
Icenhour, J. E.	Eng. 2	Jacksonville	Duval
Igou, D. R.	A. & S. 1	Eustis	Lake
Ilitch, D. M.	Ag. Sp.	Padedj	Serbia
Inman, J. C., Jr.	Pre-Med. 2	Greensboro	Gadsden
Ivey, F. M.	Nor. 2	Bartow	Polk
James, R. T.	Ag. 4-mo.	Humboldt	Tennessee
Jeacle, W. G.	T. 1	Mandarin	Duval
Jenkins, I. C.	A. & S. Sp.	Gainesville	Alachua
Jeremiassen, H. K.	Eng. 2	Miami	Dade
Johnson, A. J.	A. & S. 1	Jennings	Hamilton
Johnson, A. R.	Ag. 1-yr.	Lutz	Hillsborough
Johnson, A. W.	Fed. Voc., Ag. Sp.	Boynton	Palm Beach
Johnson, C. D.	A. & S. 4	Clearwater	Pinellas
Johnson, R. G., Jr.	A. & S. 1	Tallahassee	Leon
Johnson, R. L.	Nor. 1	Lake Wales	Polk
Johnson, S. G.	Ag. 1	St. Petersburg	Pinellas
Johnston, J. B.	Ag. 2-yr.	Bartow	Polk
Jones, H. H.	Eng. 1	Pensacola	Escambia
Jones, J. M.	A. & S. 1	Pensacola	Escambia
Jones, L. B., Jr.	Ag. 2-yr.	Jacksonville	Duval
Jones, M. H.	L. 3	St. Augustine	St. Johns
Jones, M. Z.	Fed. Voc., Ag. 1-yr.	Laurel Hill	Okaloosa
Jones. W. E.	Eng. 1	Bartow	Polk
Kail, Claude	Fed. Voc., Ag. Sp.	Alamo	Tennessee
Keen, D. W.	A. & S. 2	Jacksonville	Duval
Keen, J. V.	A. & S. Sp., L. 1	Marianna	Jackson
Keller, F. M.	Eng. 2	Ft. Meade	Polk
Kelly, J. G.	Fed. Voc., Ag. 1-yr.	Lake Butler	Bradford
Kennan, T. F.	A. & S. 1	Hilliard	Nassau
Kennedy, T. S.	Ag. 2-yr.	Pensacola	Escambia
Kent, S. G.	Eng. 4	Cocoanut Grove	Dade
Kilcrease, J. A.	Fed. Voc., Ag. Sp.	Baker	Okaloosa
Kilgore, Fred	Eng. 1	Clearwater	Pinellas
Kimball, A. H.	L. 1	Gainesville	Alachua
King, A. H., Jr.	L. 1	Jacksonville	Duval
King, Edward	P. H. S.	Fellsmere	St. Lucie
King, W. R.	A. & S. 1	Ft. Pierce	St. Lucie
Kingman, C. B.	Ag. 2-yr.	Titusville	Brevard
Klock, J. H.	A. & S. 2	Eastlake	Marion
Knight, D. B.	Eng. 3	Bunnell	St. Johns
Knight, E. K.	L. 3	Bradentown	Manatee
Knight, J. E.	Eng. 1	Plant City	Hillsborough
Knight, R. E.	A. & S. Sp.	Tampa	Hillsborough
Law, W. E., Jr.	Eng. 1	Jacksonville	Duval
Leahy, D. L.	Eng. 1	Jacksonville	Duval
Lease, D. H.	Ag. Sp.	Cincinnati	Ohio
Lecks, F. H.	Eng. Sp., Ag. Sp.	Palatka	Putnam
Leffers, Herman	Ag. 2-yr.	Ft. Myers	Lee
Leisher, D. L.	Eng. 2	Wabassa	St. Lucie
Leland, P. E.	Eng. 1	Dayton	Ohio
L'Engle, J. B.	L. Sp.	Jacksonville	Duval
Lesley, J. L.	L. 1	Tampa	Hillsborough

Name	Classification	Postoffice	County or State
Lichliter, C. H.	L. 3	Jacksonville	Duval
Liddon, J. W.	L. 2	Marianna	Jackson
Lindelie, S. O.	A. & S. 1	St. Petersburg	Pinellas
Link, C. T.	Fed. Voc., Ag. 2	Orlando	Orange
Link, H. H.	Ag. 2-yr.	Orlando	Orange
Little, J. P., Jr.	Eng. 4	Clearwater	Pinellas
Longee, N. C.	P. H. S.	Daytona Beach	Volusia
Lourcey, Leo	Fed. Voc., Ag. Sp.	South Jacksonville	Duval
Lunden, H. A.	Eng. 1	Lansing	Michigan
Lurton, E. W.	Eng. 1	Pensacola	Escambia
Lyman, C. D.	Eng. Sp.	West Palm Beach	Palm Beach
Lyman, R. T.	L. 1	West Palm Beach	Palm Beach
McAlexander, W. L.	Eng. 2	Sanford	Seminole
McAlpin, J. W.	Ag. 2-yr.	White Springs	Hamilton
McBride, W. H.	Ag. 1	Seville	Volusia
McCall, Frank	Fed. Voc., Ag. Sp.	Eustis	Lake
McCall, W. W.	Eng. 1, Ag. 1	Monticello	Jefferson
McClain, H. E.	A. & S. 1	Thorsby	Alabama
McCorkle, M. R., Jr.	Eng. 1	Johnson City	Tennessee
McDonald, J. H.	Eng. 2	Moore Haven	DeSoto
McGriff, G. O.	Eng. 1	West Palm Beach	Palm Beach
McKey, J. D.	Eng. 3	Plant City	Hillsborough
McKey, R. M.	A. & S. 1	Plant City	Hillsborough
McKey, W. A.	Eng. 3	Plant City	Hillsborough
McKillop, I. H.	L. 1	Homeland	Polk
MacKinnon, F. T.	Ag. 1-yr.	Marianna	Jackson
McLane, E. F.	T. 2	Greensboro	Gadsden
McLeod, H. E.	A. & S. 1	Tampa	Hillsborough
McMillan, M. R.	A. & S. 1	Gainesville	Alachua
Madison, W. M.	L. 2	Jacksonville	Duval
Magill, W. L.	A. & S. 2	LaBelle	Lee
Mahannah, W. D.	Eng. 1	Ft. Lauderdale	Broward
Mahoney, W. H.	Ag. 3	Leesburg	Lake
Maines, J. E.	Pre-Med. 2	Lake Butler	Bradford
Malcolm, F. M.	Ag. 1	Ft. Fairfield	Maine
Markey, W. D.	Eng. 1	High Springs	Alachua
Marshall, A. P.	L. 2	Clearwater	Pinellas
Marshall, R. W.	Fed. Voc., Ag. Sp.	New Haven	Connecticut
Marsicano, R. A.	Eng. 1	Tampa	Hillsborough
Massaro, A. F.	A. & S. 4	Tampa	Hillsborough
Massey, H. S.	Ag. 2	Dade City	Pasco
Matlack, M. B.	A. & S. Sp.	Sorrento	Lake
Mathews, E. L.	Ag. 1	Bartow	Polk
Mathison, C. M.	L. 1	Apalachicola	Franklin
Matthews, J. C.	A. & S. 1	Trenton	Alachua
Mayes, H. L.	L. 1	Pensacola	Escambia
Mays, C. P.	A. & S. 1	Monticello	Jefferson
Means, S. C.	Fed. Voc., Eng. Sp.	Ft. White	Columbia
Meldrim, J. S.	Ag. 1	Plant City	Hillsborough
Mellor, F. H.	L. 2	Gainesville	Alachua
Mellor, J. W.	A. & S. 1	Gainesville	Alachua
Merchant, H. M.	A. & S. 3	Gainesville	Alachua
Merck, H. W.	P. H. S.	Eustis	Lake
Merrin, J. F.	A. & S. 1	Plant City	Hillsborough
Meyer, Cecil	Fed. Voc., Ag. 1-yr.	Lutz	Hillsborough
Milam, G. W.	A. & S. 2	Jacksonville	Duval
Miller, R. T.	P. H. S.	Lake City	Columbia
Millican, E. W.	Ag. 2	Waldo	Alachua
Milliken, F. L. S.	Ag. 2-yr.	Tampa	Hillsborough
Mills, L. L.	Eng. 1	Mulberry	Polk

Name	Classification	Postoffice	County or State
Mitchell, N. E.	A. & S. 1	Chipley	Washington
Mixson, J. L.	Eng. 1	Williston	Levy
Moore, Ellis	Nor. 1	Milligan	Okaloosa
Moorhead, J. R., Jr.	Eng. 3	Ocala	Marion
Morgan, C. E.	A. & S. 2	Miami	Dade
Morgan, L. Z.	L. 3	Jacksonville	Duval
Morrow, D. A.	Eng. 1	Dunnellon	Marion
Moser, I. E.	Pre-Med. 2	Homestead	Dade
Moyer, M. H.	T. 3	Ft. White	Columbia
Murray, D. H.	Eng. 1	Hawks Park	Volusia
Murrell, W. O.	L. 1	Sanford	Seminole
Nagle, L. M.	Fed. Voc., Ag. 1-yr.	Interlachen	Putnam
Nichols, C. H.	Ag. 2, T. 2	Clearfield	Pennsylvania
Nolen, R. E.	Ag. 4	Fellsmere	St. Lucie
Norton, O. H.	L. 2	Tampa	Hillsborough
Nugent, P. B.	Eng. 1	Ft. Meade	Polk
Oberdorfer, T. E.	A. & S. 1	Jacksonville	Duval
Oberholtzer, J. V.	A. & S. 1	Emeralda	Lake
O'Bryant, Horace	T. 2	Oxford	Sumter
Odom, E. S.	Ag. 1	Munson	Santa Rosa
Ogburn, E. D.	L. 1	Pomona	Putnam
Ogilvie, W. R.	A. & S. Sp.	Gainesville	Alachua
Olsen, A. E.	A. & S. 1	Pensacola	Escambia
Ott, A. A.	Fed. Voc., Nor. Sp.	Gainesville	Alachua
Otto, Joseph	Eng. Sp.	Key West	Monroe
Otto, T. O.	A. & S. 2	Key West	Monroe
Palmer, T. M.	A. & S. Sp.	Tallahassee	Leon
Parcell, H. D.	A. & S. 2	Tampa	Hillsborough
Parker, F. W.	Eng. 1	Tampa	Hillsborough
Parrish, I. N.	A. & S. Sp.	Gainesville	Alachua
Parrish, P. G.	Nor. 1	Davenport	Polk
Parrish, P. H.	A. & S. 1	Gainesville	Alachua
Patrick, J. W.	Fed. Voc., Ag. Sp.	Beresford	Volusia
Patterson, C. E.	Eng. 1, Ag. 1	Muscogee	Escambia
Paul, F. C.	Eng. 1	Tampa	Hillsborough
Pavlides, A. N.	Eng. 1	Miami	Dade
Paxton, E. B.	Eng. 4	Sanford	Seminole
Payton, L. S.	Ag. 1	Horse Cave	Kentucky
Peacock, S. C.	L. 1	Tampa	Hillsborough
Peaden, P. L.	T. 1	Milton	Santa Rosa
Pearce, J. E.	P. H. S.	Newberry	Alachua
Pemberton, H. O.	A. & S. 1	Tampa	Hillsborough
Pendarvis, L. T.	P. H. S.	Blountstown	Calhoun
Pender, M. S.	Pre-Med. 1	Sneads	Jackson
Perkins, R. P.	Eng. 1	Pine Castle	Orange
Perry, C. E.	Ag. Sp.	Gainesville	Alachua
Perry, Henry, Jr.	Eng. 1	Wildwood	Sumter
Perryman, E. K.	L. 3	Starke	Bradford
Person, C. W.	Fed. Voc., Nor. Sp.	Wildwood	Sumter
Peterson, W. S.	Fed. Voc., Ag. Sp.	Brooklyn	New York
Pfeiffer, C. A.	Eng. 3	Miami	Dade
Phillips, W. K.	Ag. 2-yr.	Louisville	Kentucky
Phillips, W. M.	Nor. 1	Tallahassee	Leon
Pierce, J. L.	Pre-Med. 1	Marianna	Jackson
Pierce, R. S., Jr.	Nor. 1	Marianna	Jackson
Pomeroy, E. F.	Nor. 1	Jacksonville	Duval
Powell, H. G.	Ag. 4	Lake City	Columbia
Powell, J. H.	A. & S. 1	Starke	Bradford
Powell, J. M., Jr.	A. & S. 3	Gainesville	Alachua
Pratt, A. B.	Ag. 2	Ortega	Duval

Name	Classification	Postoffice	County or State
Pratt, L. B.	Eng. 4	Ortega	Duval
Price, C. G.	Nor. 1	West Palm Beach	Palm Beach
Prince, W. W.	Fed. Voc., Ag. 2-yr.	Minneapolis	Minnesota
Pryor, G. W.	Fed Voc., Ag. Sp.	Mary Esther	Okaloosa
Quinan, E. B.	L. 2	Miami	Dade
Raa, B. N.	A. & S. 3	Tallahassee	Leon
Rambo, D. A.	L. 1	Orlando	Orange
Redman, R. P.	Eng. 2	Ft. Lauderdale	Broward
Regero, Anthony	A. & S. 2	Tampa	Hillsborough
Regero, C. J.	A. & S. 1	Tampa	Hillsborough
Reyes, J. L.	L. 1	Gingoog	Philippines
Rhea, J. I.	Eng. 2	Ft. Pierce	St. Lucie
Rhudy, R. R.	A. & S. 2	Gainesville	Alachua
Richardson, L. L.	Ag. 2-yr.	Evinston	Alachua
Richbourg, L. C.	Ag. 2	Crestview	Okaloosa
Roach, J. S.	Pre-Med. 1	High Springs	Alachua
Roberson, H. L.	Fed. Voc., Ag. Sp.	Ocala	Marion
Roberts, E. E.	A. & S. 1	Key West	Monroe
Roberts, G. C.	Ag. 4, T. 4	Trenton	Alachua
Roddenizer, L. L.	L. Sp.	Jacksonville	Duval
Rogers, M. S.	Eng. 1	Jacksonville	Duval
Rogers, W. W.	Pre-Med. 1	Jacksonville	Duval
Rose, A. P.	Fed. Voc., Ag. Sp.	Gainesville	Alachua
Rosenhouse, M. H.	L. 1	Milton	Santa Rosa
Rosenthal, J. D.	Eng. 4	Tampa	Hillsborough
Rowland, R. C.	Fed. Voc., Ag. 1-yr.	Harbor View	DeSoto
Rubin, Philip	Ag. 3	Dunnellon	Marion
Runge, W. F.	Eng. 2	Sanford	Seminole
Sale, D. B.	Pre-Med. 2	Southport	Bay
Sale, T. D., Jr.	A. & S. 2	Southport	Bay
Sampaio, Jose de	Eng. 3	Sao Paulo	Brazil
Sampson, R. H.	Ag. 2-yr.	Mango	Hillsborough
Sanders, M. E.	Eng. 1	Trenton	Alachua
Sapp, F. W.	Nor. 1	Chipley	Washington
Savage, C. A., Jr.	L. 1	Ocala	Marion
Scarritt, R. M.	P. H. S.	Pensacola	Escambia
Schabinger, E. M.	Ag. 1	Delray	Palm Beach
Schwartz, K. W.	Pre-Med. 1	Miami	Dade
Scofield, J. W.	Ag. 4, T. 4	Inverness	Citrus
Sconiers, F. H.	Fed. Voc., Ag. Sp.	DeFuniak Springs	Walton
Scott, I. W.	Eng. 2	Dunkirk	New York
Scruggs, S. L.	L. 1	Aucilla	Jefferson
Sensabaugh, R. L.	Ag. 4	Winterhaven	Polk
Settle, F. L.	Fed. Voc., Ag. 1-yr.	Quintette	Escambia
Sewell, J. J.	L. 1	Miami	Dade
Shelfer, J. L.	Ag. 1-yr.	Quincy	Gadsden
Sheppard, R. H.	A. & S. 1	Tampa	Hillsborough
Sherman, J. S.	Ag. 2	Miami	Dade
Shockney, J. C.	Nor. 1	Bay Harbor	Bay
Simmons, A. C.	Eng. 2	Jacksonville	Duval
Simmons, G. B.	T. 1	Ponce de Leon	Holmes
Simmons, G. E.	A. & S. 2	Andalusia	Alabama
Simmons, S. J., Jr.	Pre-Med. 1	Arcadia	DeSoto
Slanker, F.	Ag. 3	Washington	District of Columbia
Smith, A. G.	A. & S. 1	Wauchula	DeSoto
Smith, A. Y.	Eng. 2	Miami	Dade
Smith, C. E.	T. 1	DeFuniak Springs	Walton
Smith, D. G.	Ag. 1	Ft. Lauderdale	Broward
Smith, Elisha	Fed. Voc., Ag. Sp.	Jacksonville	Duval
Smith, J. F.	A. & S. Sp.	Brewton	Alabama

Name	Classification	Postoffice	County or State
Smith, M. H.	A. & S. 1	Ft. Lauderdale	Broward
Smith, R. K.	Ag. 2-yr.	Sumner	Mississippi
Smith, R. M.	Ag. 1	Jacksonville	Duval
Smith, S. G.	Ag. 1-yr.	Wauchula	DeSoto
Sollee, A. N.	Eng. 2	South Jacksonville	Duval
Spain, F. O., Jr.	L. 1	Jacksonville	Duval
Sparkman, A. L.	Fed. Voc., Ag. Sp.	Plant City	Hillsborough
Sparkman, J. K.	Ag. 4	Tampa	Hillsborough
Spence, H. C.	Nor. 1	Port St. Joe	Calhoun
Spencer, G. W., Jr.	L. 1	Sanford	Seminole
Stanley, G. B.	A. & S. 1	Jacksonville	Duval
Stanley, R. L.	A. & S. 1	Jacksonville	Duval
Stapleton, H. V.	A. & S. 4	Gainesville	Alachua
Stears, J. M.	Ag. Sp.	Lake Worth	Palm Beach
Stein, Maurice	A. & S. 2	Tampa	Hillsborough
Stephens, L. T.	Ag. 1-yr.	Ona	DeSoto
Stephens, Walter	Fed. Voc., Ag. Sp.	Tampa	Hillsborough
Stevens, H. Q.	A. & S. 2	St. Augustine	St. Johns
Stewart, L. D.	Ag. 1	Bradentown	Manatee
Stewart, S. S.	Ag. 4-mo.	Norwich	New York
Stinson, P. W.	Eng. Sp.	Tarpon Springs	Pinellas
Stoiljkovitch, A.	Ag. Sp.	G. Prisjan	Serbia
Stokes, F. C.	Fed. Voc., Ag. Sp.	Brooker	Bradford
Storms, K. R.	Ag. 1	Zephyrhills	Pasco
Strain, H. L.	L. 1	Lakeland	Polk
Stringfellow, H. R.	Eng. 4	Gainesville	Alachua
Strossman, J. A.	Eng. 1	Mt. Sterling	Kentucky
Sumner, F. M.	Eng. 1	St. Petersburg	Pinellas
Sundy, J. D.	Ag. Sp.	Delray	Palm Beach
Sutker, Nathan	Ag. 4	Savannah	Georgia
Swanson, R. M.	Eng. 2	Gainesville	Alachua
Swartz, F. G.	Fed. Voc., Eng. Sp.	Gainesville	Alachua
Sweat, C. D.	A. & S. 1	Jacksonville	Duval
Sweat, E. D.	Fed. Voc., Nor. Sp.	Green Cove Springs	Clay
Tan, Len B.	Ag. 3	Canton	China
Tatom, L. J.	Eng. 3	Pensacola	Escambia
Tatum, J. R.	A. & S. Sp.	Miami	Dade
Taylor, Jelks	Eng. 1	Arcadia	DeSoto
Taylor, J. H.	L. 1	Jacksonville	Duval
Taylor, O. P.	Ag. 1, L. 1	Miami	Dade
Taylor, V. W.	Pre-Med. 1	Campbell	Missouri
Terry, R. P.	L. 1	Jacksonville	Duval
Theed, C. L.	Ag. 2, L. 1	Miami	Dade
Thomas, C. S.	Eng. 3	Gainesville	Alachua
Thomas, I. G.	Eng. 1	Buckingham	Lee
Thomasson, Ferdinand	A. & S. 1	St. Petersburg	Pinellas
Thompson, J. M.	Eng. Sp.	Tampa	Hillsborough
Thompson, H. L.	L. 3	Gainesville	Alachua
Thompson, L. L.	A. & S. 1	Tarpon Springs	Pinellas
Thompson, W. E.	L. 1	Tampa	Hillsborough
Thornton, Burwell	L. Sp.	Ormond Beach	Volusia
Thrasher, B. E.	Pre-Med. 1	Micanopy	Alachua
Ticknor, J. N.	Ag. 4	Dade City	Pasco
Tiller, W. M.	Ag. 1	Kissimmee	Osceola
Tillman, Rollie	A. & S. 1	Lake Wales	Polk
Tillman, W. M.	Ag. 2	Lake Wales	Polk
Timmons, E. L.	Ag. 1-yr.	Quincy	Gadsden
Todd, L. E.	A. & S. 2	Ocala	Marion
Tolbert, H. L.	T. 2	Ft. White	Columbia
Tooke, W. L.	A. & S. 1	Floral City	Citrus

Name	Classification	Postoffice	County or State
Toomer, F. V.	A. & S. 1	Jacksonville	Duval
Traxler, D. B.	A. & S. 1	Alachua	Alachua
Traxler, J. G.	Pre-Med. 1	Gainesville	Alachua
Treadwell, J. K.	A. & S. 2	Arcadia	Desoto
Tripp, W. H.	Ag. 1, L. 1	Monticello	Jefferson
Turner, R. J.	Fed. Voc., Ag. 1-yr.	Lake Butler	Bradford
Tyler, J. E.	Eng. 1	Dunedin	Pinellas
Ulmer, R. J.	Ag. 1	Largo	Pinellas
Urquhart, H. E.	Fed. Voc., Ag. 1-yr.	Milton	Santa Rosa
Vandergrift, J. H.	L. 1	Jacksonville	Duval
Van Eepoel, A. R.	Ag. 2	Tampa	Hillsborough
Villareal, D. R.	Nor. 1	Key West	Monroe
Vining, E. C.	L. 2	Wildwood	Sumter
Vinson, G. S.	Ag. Sp.	Pensacola	Escambia
Wade, L. N.	Ag. 1	Palmetto	Manatee
Waldron, J. C.	Fed. Voc., Ag. Sp.	Lake City	Columbia
Walker, C. L.	Ag. 2	Washington	District of Columbia
Walker, J. B.	T. 2	Baker	Okaloosa
Wallace, J. G.	Nor. 3	Williston	Levy
Walsh, J. E.	P. H. S.	Gainesville	Alachua
Ward, D. H.	Fed. Voc., Ag. 1-yr.	Round Lake	Jackson
Ward, H. F.	Eng. 2, A. & S. Sp.	Jacksonville	Duval
Ward, R. F.	Ag. 2-yr.	Atmore	Alabama
Ward, W. G.	Eng. 1	Jacksonville	Duval
Warner, H. C.	Eng. 4	Tampa	Hillsborough
Watkins, J. N.	Eng. 3	Key West	Monroe
Watson, J. W., Jr.	L. 3	Miami	Dade
Webb, R. S.	Eng. 1	White Springs	Hamilton
Weedon, F. R.	A. & S. 4	Tampa	Hillsborough
Wells, J. R., Jr.	A. & S. 1, L. Sp.	Panama City	Bay
Wells, W. G.	Ag. 3	City Point	Brevard
Wesson, L. A.	Eng. 1	Ocala	Marion
West, T. F., Jr.	A. & S. 1	Tallahassee	Leon
Westmoreland, R. L.	Ag. 4	Live Oak	Suwanee
Wey, J. E.	P. H. S.	Arcadia	DeSoto
Whidden, M. J.	Eng. 1	Mulberry	Polk
Whidden, W. B.	Fed. Voc., Ag. Sp.	Palmdale	DeSoto
Whidden, W. K.	Fed. Voc., Ag. 1-yr.	Bartow	Polk
White, Alex	Ag. 1	Tampa	Hillsborough
White, C. B.	Ag. 4-mo.	McMeekin	Putnam
White, J. S.	A. & S. 1	Gainesville	Alachua
Whitehurst, M. C.	L. Sp.	Wauchula	DeSoto
Whitehurst, O. G.	L. Sp.	Wauchula	DeSoto
Wiggins, H. M.	Ag. 2-yr.	Bartow	Polk
Wilkinson, E. R.	A. & S. 1	Bradentown	Manatee
Williams, D. E.	T. 2	Williston	Levy
Williams, I. D.	Eng. 1	Tampa	Hillsborough
Williams, J. F., Jr.	Ag. 2	Monticello	Jefferson
Williams, L. D.	Ag. 2	Evansville	Indiana
Williams, O. E.	L. 3	Haskell	Polk
Williams, O. J.	Eng. 1	Pensacola	Escambia
Williams, T. D.	A. & S. 4	Jacksonville	Duval
Willoughby, C. H.	Grad.	Gainesville	Alachua
Willson, E. B., Jr.	Ag. 1, A. & S. 1	St. Petersburg	Pinellas
Wilson, C. P.	Ag. 2-yr.	Ft. White	Columbia
Wilson, E. F.	L. 3	New Smyrna	Volusia
Wilson, E. L.	Eng. 1	Jacksonville	Duval
Wilson, H. S.	A. & S. 1, Ag. 1	Starke	Bradford
Wilson, J. N., Jr.	Pre-Med. 1	Sneads	Jackson
Wilson, L. H.	Ag. 4	Bartow	Polk

Name	Classification	Postoffice	County or State
Wilson, L. M.	P. H. S.	Tampa	Hillsborough
Wimberly, W. M.	Fed. Voc., Eng. Sp.	Highland	Clay
Windisch, E. B.	Eng. 2	Ft. Pierce	St. Lucie
Winfield, J. A.	Eng. 1	O'Brien	Suwanee
Winter, T. P.	A. & S. 2	Oakland	Orange
Wolfenden, W. L.	Eng. 1	Palatka	Putnam
Wolfson, A. M.	A. & S. 4	Tampa	Hillsborough
Woodruff, J. G.	L. 1	Sanford	Seminole
Worth, C. E.	L. 3	Tampa	Hillsborough
Wuthrich, E. B.	Eng. 2	Lansing	DeSoto
Yancey, M. N.	Eng. 4	Plant City	Hillsborough
Yarnoff, W. J.	Eng. 1	Germantown	Pennsylvania
Yates, W. S.	T. 1	Gainesville	Alachua
Yeats, M. L.	A. & S. 2	Bartow	Polk
Zeder, H. H.	Eng. 4	Delray	Palm Beach

SUMMER SCHOOL, 1919

Name	Classification	Postoffice	County or State
Abbott, Charles E.		Ft. Green Springs	DeSoto
Abraham, Judith		Wildwood	Sumter
Abstein, Cecelia Cornelia		Island Grove	Alachua
Adams, B. D.		Gainesville	Alachua
Adams, Mrs. B. D.		Gainesville	Alachua
Adams, Isabel		San Antonio	Pasco
Adams, Lucile Edith		Gainesville	Alachua
Adams, Ruth		Gainesville	Alachua
Adkins, Flora		Dade City	Pasco
Akins, Elizabeth		St. Catherine	Sumter
Akins, Hattie		St. Catherine	Sumter
Albritton, Kathleen		Winter Haven	Polk
Alderman, Myra		Ft. Meade	Polk
Alexander, Mrs. Louise		Wauchula	DeSoto
Allen, Margaret K.		Longwoods	Seminole
Alonso, Mrs. Kate J.		Melbourne	Brevard
Altman, Bob		Labelle	Lee
Andrews, L. B.		Darlington	Walton
Archer, Benjamin E.		Key West	Monroe
Archibald, Mary E.		Center Hill	Sumter
Armstead, Austin		Gainesville	Alachua
Arrington, Mary		Trenton	Alachua
Ashe, Mrs. Ione		Key West	Monroe
Ashley, Julia		St. Petersburg	Pinellas
Avriett, Grace B.		Jennings	Hamilton
Bailey, Mary Trentlen		Clearwater	Pinellas
Baker, Mrs. Julia Rae		Webster	Sumter
Baldwin, Mrs. N.		Alachua	Alachua
Barnes, Ruth		O'Brien	Suwanee
Barrow, Lula Lee		Chiefland	Levy
Barry, Janie		Alachua	Alachua
Bartlett, Charles W., Jr.		Tampa	Hillsborough
Beach, Bessie		Webster	Sumter
Bearden, Edna		Waleska	Georgia
Bearden, Leo		Waleska	Georgia
Beasley, Mamie		Hawthorn	Alachua
Beeson, Edward L.		Sarasota	Manatee
Begg, Mrs. Rose G.		Jacksonville	Duval
Belcher, Aileen		Largo	Pinellas
Bell, Corrie		Alachua	Alachua

Name	Postoffice	County or State
Bell, Helen	Hawthorn	Alachua
Bell, John J., Jr.	Brooksville	Hernando
Bell, Natalie G.	Gainesville	Alachua
Berry, Ivey Collins	Center Hill	Sumter
Berry, Otis E.	Center Hill	Sumter
Bettes, Irene	St. Augustine	St. Johns
Beville, M. George	Webster	Sumter
Blackburn, Maude	Bowling Green	DeSoto
Blount, Walter Earle	Ft. Myers	Lee
Bostick, Ezra C.	Plant City	Hillsborough
Bostick, William A.	Camilla	Georgia
Bovay, Claude	Gardner	DeSoto
Boyd, Carrie B.	Plant City	Hillsborough
Boyette, LaRay	Plant City	Hillsborough
Briggs, Dorothy R.	Zephyrhills	Pasco
Brooker, Effie	Trenton	Alachua
Brooks, Mary Louise	Ocala	Marion
Brown, Bertha May	Plant City	Hillsborough
Browning, Ruby E.	Bradentown	Manatee
Bryant, Margaret J.	Lakeland	Polk
Bryant, M. M.	Inverness	Citrus
Bryson, Willie B.	Live Oak	Suwanee
Bullard, Newton J.	St. Cloud	Osceola
Bullock, William Jennings	Arcadia	DeSoto
Burgess, Josephine S.	Aurantia	Brevard
Burke, Mrs. W. H.	Gainesville	Alachua
Busch, Ethel	Tampa	Hillsborough
Buzzard, Marguerite	DuPont	Flagler
Byrd, Maggie Mae	Hastings	St. Johns
Camargo, Felisberto C.	Sao Paulo	Brazil
Campbell, Alice M.	Winter Park	Orange
Campbell, Christopher G.	Melbourne	Brevard
Cannon, Mrs. Jessie A.	Palatka	Putnam
Carey, Miriam E.	Key West	Monroe
Carleton, Boyd	Gainesville	Alachua
Carnes, Charles N.	Panama City	Bay
Carroll, T. T.	Umatilla	Lake
Carruthers, Marjorie	Gainesville	Alachua
Carter, Edith E.	Dade City	Pasco
Carey-Elwes, Herbert	Melbourne	Brevard
Cawthon, Mrs. W. S.	Gainesville	Alachua
Chaffer, Herbert J.	Geneva	Seminole
Chandler, J. L.	Charlotte Harbor	DeSoto
Chapman, Mary Louise	Orlando	Orange
Chapman, Violet	Jacksonville	Duval
Chesnut, Edna Earle	Gainesville	Alachua
Christiansen, Harriett	Miami	Dade
Church, Alice L.	Eustis	Lake
Church, Eva F.	Switzerland	St. Johns
Clark, Florence	Mulberry	Polk
Clayton, E. A.	Aucilla	Jefferson
Clemons, Joseph G.	Plant City	Hillsborough
Clemons, May	Brooker	Bradford
Cogburn, Harry P.	Cottondale	Jackson
Cole, Elizabeth	Plant City	Hillsborough
Coleman, Mrs. Amy	Knoxville	Tennessee
Collier, Eunice	Otter Creek	Levy
Collins, Arta	Bartow	Polk
Colson, Cecil	Ft. Myers	Lee
Colson, Chas. C.	Auburndale	Polk

Name	*Postoffice*	*County or State*
Colson, Dorothy	Trenton	Alachua
Colson, Ottie	Eagle Lake	Polk
Connell, Harvey Randall	Orlando	Orange
Connor, Mary	Oklawaha	Marion
Connor, Miriam	Oklawaha	Marion
Conway, Ephriam D.	Bostwick	Putnam
Cooksey, Martha P.	Lloyd	Jefferson
Cooper, Evalyn P.	Arcadia	DeSoto
Copeland, Goodrich Russell	St. Petersburg	Pinellas
Copeland, Joseph H.	Antioch	Hillsborough
Coram, Elizabeth J.	South Boca Grande	Lee
Cox, Anita May	Alva	Lee
Cox, Richard Augustus	Gainesville	Alachua
Cox, Warren E.	Gainesville	Alachua
Crenshaw, Etta May	Wildwood	Sumter
Crosby, Alden Bailey	San Mateo	Putnam
Crowe, Margaret H.	Safety Harbor	Pinellas
Crowley, Herbert E.	Montverde	Lake
Cummings, Fannie	Tampa	Hillsborough
Curry, Amelia	Manatee	Manatee
Curry, Mabel O.	Nokomis	Manatee
Curtis, Charles V.	Key West	Monroe
Daiger, Mary A.	Winter Haven	Polk
Daniel, Bertha M.	Sanibel Isle	Lee
Dannemann, Irma	Wall Springs	Pinellas
Davis, A. Heyward	Gainesville	Alachua
Davis, Lillian	Tampa	Hillsborough
Davis, Ossie	Leesburg	Lake
Dawson, Ethel K.	Wauchula	DeSoto
Dawson, Gamma	Wauchula	DeSoto
Dees, Irene	Mayo	Lafayette
Demaree, Evalyn	Gainesville	Alachua
DeMerritt, Fred E.	Key West	Monroe
DeSha, Bernice	Waldo	Alachua
DeVane, Claude Lee	Plant City	Hillsborough
Dew, Zelle	Alachua	Alachua
Diamond, J. T.	Gonzalez	Escambia
Dorsey, Annie Elizabeth	Gainesville	Alachua
Downing, Clara Belle	High Springs	Alachua
Driggers, Roy L.	Fort Green	DeSoto
Duncan, Orrie D.	Ft. White	Columbia
Dunphey, Nettie	Bradentown	Manatee
Durrance, J. H.	Wauchula	DeSoto
Durrance, Mrs. J. H.	Wauchula	DeSoto
Dyches, Percie	Alva	Lee
Dyess, Daisy Kathryn	Hawthorn	Alachua
Ebinger, Rollin	Tampa	Hillsborough
Edwards, W. L.	Gainesville	Alachua
Ely, Mildred	Miami	Dade
Emmitt, Alma	Green Cove Springs	Clay
Farabee, T. N.	Wauchula	DeSoto
Farmer, Annie Lee	Gainesville	Alachua
Farnell, Ethel M.	Ft. White	Columbia
Farrington, Thomas W.	Tampa	Hillsborough
Farster, Robena	Wildwood	Sumter
Fattig, Wilbur L.	Gainesville	Alachua
Feagle, William B.	High Springs	Alachua
Feltham, Hazel	St. Petersburg	Pinellas
Ferguson, Sarah E.	Ocala	Marion
Fletcher, Thelma I.	Fletcher	Lafayette

Name	Postoffice	County or State
Fogg, Grace D.	Graham	Bradford
Fogg, Leta M.	Graham	Bradford
Forbes, Pearl	Anthony	Marion
Foster, John G.	Gainesville	Alachua
Friedman Laurie E.	Jacksonville	Duval
Frye, Thomas C.	Gainesville	Alachua
Fulton, Dorothy Isabel	Tarpon Springs	Pinellas
Furen, Elizabeth M.	Sanford	Seminole
Fussel, Lillie M.	Coleman	Sumter
Futch, Cedora	Dade City	Pasco
Futch, Emma E.	Hampton	Bradford
Gale, Mary Amelia	Belleview	Marion
Galindo, Coralia	Key West	Monroe
Garner, Alice E.	Tampa	Hillsborough
Garnett, Roy E.	Hypoluxo	Palm Beach
Gay, Mrs. Mabel E.	Wauchula	DeSoto
Gay, W. W.	Wauchula	DeSoto
Geiger, Ula L.	Stuart	Palm Beach
George, Jocie	High Springs	Alachua
Gillett, Harvey C.	Hastings	St. Johns
Goette, W. L.	Eustis	Lake
Golden, Bessie	Jacksonville	Duval
Goldsmith, Martha I.	Ft. Pierce	St. Lucie
Good, Joseph M.	Williston	Levy
Goulding, R. L.	Atlanta	Georgia
Goulding, Mrs. R. L.	Atlanta	Georgia
Graham, Ada	McDavid	Escambia
Gray, Hildreth J.	Delray	Palm Beach
Gray, Leon Archie	Hinson	Gadsden
Grier, Lucie	West Palm Beach	Palm Beach
Griffin, Percy	Hampton	Bradford
Hadden, Myra	Ft. Myers	Lee
Hagan, Mary	Charlotte Harbor	DeSoto
Haigh, John Harry	Seabreeze	Volusia
Haile, Allen	Gainesville	Alachua
Hait, Kenneth B.	Lynn Haven	Bay
Hall, Dorothy	St. Cloud	Osceola
Hall, Elmer A.	Live Oak	Suwanee
Hampton, Nettie E.	Labelle	Lee
Hampton, Vera C.	Labelle	Lee
Hancock, Clara	Bowling Green	DeSoto
Hand, Ruth A.	Sanford	Seminole
Hannon, Mary F.	Gainesville	Alachua
Hardee, Inez	Chiefland	Levy
Harn, Julia Elizabeth	Gainesville	Alachua
Harper, Annie	Homestead	Dade
Harper, Elizabeth A.	Boynton	Palm Beach
Harris, Mrs. F. M.	Frostproof	Polk
Harris, Nannie D.	Winter Park	Orange
Harrison, Kathryn	Lake Butler	Bradford
Harwell, Cora	High Springs	Alachua
Harwell, Hettie R.	Anthony	Marion
Haseltine, H. A.	Tampa	Hillsborough
Hatcher, Beula G.	Lake City	Columbia
Hathaway, W. B.	Gainesville	Alachua
Hawkins, Annie Mae	Alachua	Alachua
Hayes, Mrs. Maston S.	Bunnell	Flagler
Hayes, Maston S.	Bunnell	Flagler
Hays, William B.	DeLand	Volusia
Hazen, Eunie	Brooker	Bradford

Name	Postoffice	County or State
Hazen, Lorene	Brooker	Bradford
Hazen, Lucian O.	Brooker	Bradford
Hazen, Marvin F.	Brooker	Bradford
Helvenston, Reginald H.	Live Oak	Suwanee
Hemphill, Kate	Evinston	Alachua
Henderson, Annie G.	Orlando	Orange
Herlong, Clara	Lake City	Columbia
Herlong, Queenie C.	Lake City	Columbia
Herrick, Grace I.	Key West	Monroe
Herschberger, Lola	West Palm Beach	Palm Beach
Hiatt, Ora A.	Gainesville	Alachua
Higginbotham, Ralph	Titusville	Brevard
Highsmith, Ivy	Chiefland	Levy
Hill, Florence	Homestead	Dade
Hill, Maoma F.	Dade City	Pasco
Hodges, Leola	Lake City	Columbia
Hodges, Ray	Lake City	Columbia
Holland, George Q.	Ebb	Madison
Holland, Lotta	Bunnell	Flagler
Holland, Myrtle	Milton	Santa Rosa
Holley, Nettie	Crescent City	Putnam
Holly, Carrie	Ocala	Marion
Hollingsworth, Annie	Ft. White	Columbia
Honiker, Mrs. Miriam	Columbia	Alabama
Hooks, Dorothy	Clermont	Lake
Horn, Elsie	Tampa	Hillsborough
Horne, Bunyan L.	Chipley	Washington
Howard, Mrs. Mabel	Gainesville	Alachua
Howell, Ruth	Oak	Marion
Huber, Mrs. S. C.	DeLand	Volusia
Hudgins, Rebecca Bland	Hawthorn	Alachua
Hughes, Elizabeth	Gonzalez	Escambia
Hughes, Jennie	Gonzalez	Escambia
Hughes, Jennie Lind	Charleston	South Carolina
Hull Cecil F.	Pine Level	DeSoto
Hull, Minnie J.	Plant City	Hillsborough
Humphreys, Charles William	Hastings	St. Johns
Hunter, Maud	Tampa	Hillsborough
Hunter, Randall Bernard	Tampa	Hillsborough
Ingalls, Flora A.	Zephyrhills	Pasco
Ingalls, Sylvia A.	Zephyrhills	Pasco
Ingram, Minnie	Miami	Dade
Ireland, Mary E.	Tampa	Hillsborough
Isaac, Albert L.	Cocoanut Grove	Dade
Ito, R.	Gainesville	Alachua
Ivey, Fred M.	Homeland	Polk
Ivey, Lois P.	Branford	Suwanee
Jackson, John Leslie	Largo	Pinellas
Jeter, Frazer	Panama City	Bay
Johns, H. L.	Wellborn	Suwanee
Johnson, Amy	Marco	Lee
Johnson, Arthur F.	Laurel Hill	Okaloosa
Johnson, Clifton Drew	Clearwater	Pinellas
Johnson, Dellglazier	Waldo	Alachua
Johnson, Dora K.	Raiford	Bradford
Johnson, H. C.	Holt	Santa Rosa
Johnson, Lillian D.	Webster	Sumter
Johnson, Loca	Raiford	Bradford
Johnson, Ward Chester	Largo	Pinellas
Kantz, Margaret	Ft. Myers	Lee

Name	Postoffice	County or State
Keys, John DeWitt	Wauchula	DeSoto
Kickliter, D. C.	Tampa	Hillsborough
Kickliter, Mrs. D. C.	Tampa	Hillsborough
King, Etta	Ft. Myers	Lee
King, Mary Dillard	Bowling Green	DeSoto
Kinsey, D. A.	Okeechobee	Okeechobee
Kinsey, Lucy	Okeechobee	Okeechobee
Kinsey, Russell W.	Okeechobee	Okeechobee
Knight, Nannie May	Tampa	Hillsborough
LaCrone, C. H.	Greensboro	Gadsden
Landers, Lillie Travis	Gainesville	Alachua
Lane, Bethel	Tampa	Hillsborough
Lane, Ethel	Tampa	Hillsborough
Larkin, Jessie	Dade City	Pasco
Lartigue, Dorothy	Gainesville	Alachua
LeCroy, Eula M.	Orange City	Volusia
LeCroy, Iwanna	Orange City	Volusia
Lee, Graham W.	Leesburg	Lake
Leivonen, Lydia A.	Alachua	Alachua
Lent, Elizabeth	Sorrento	Lake
Lewis, Celeste	Montezuma	Georgia
Ley, Sybil	Tampa	Hillsborough
Lipsey, J. J.	Live Oak	Suwanee
Little, Mrs. Clifford	Madison	Madison
Little, John P., Jr.	Gainesville	Alachua
Little, Robert G.	Jacksonville	Duval
Long, Annie Laurie	Mayo	Lafayette
Long, C. W.	Gainesville	Alachua
Long Vera Inez	Campville	Alachua
Longee, Nelson Charles	Daytona Beach	Volusia
LoRe, Grace	Ybor City	Hillsborough
Love, Bertha Lee	Trenton	Alachua
Love, Lillie	Trenton	Alachua
Love, Louise	Alachua	Alachua
Love, Pauline I.	Floral City	Citrus
Lucas, Pauline E.	Tampa	Hillsborough
Lydia, Sister Mary	Key West	Monroe
Lyell, Louis G.	Gainesville	Alachua
McArthur, Gertrude	Gholson	Mississippi
McArthur, James N.	Madison	Madison
McCaskill, M. Stanley	Perry	Taylor
McClean, Annie H.	Archer	Alachua
McCollum, Mrs. J. W.	Gainesville	Alachua
McCraw, Mary P.	Gainesville	Alachua
McCullough, Fay	Hastings	St. Johns
McCullough, Fulton B.	Hastings	St. Johns
McDevitt, Ruby	Orlando	Orange
McDonald, Edwin R.	Gainesville	Alachua
McDonald, Mrs. F. E.	Gainesville	Alachua
McDowall, Jack	Gainesville	Alachua
McDuffee, Lizzie Belle	Manatee	Manatee
McEwen, R. O.	Lochloosa	Alachua
McGhee, Arthur	Gainesville	Alachua
McGhee, Helen	Gainesville	Alachua
McGinty, Sister M. Terese	San Antonio	Pasco
McKay, Glenn E.	Key West	Monroe
McKay, Mrs. Glenn E.	Key West	Monroe
McKay, Lawrence W. R.	Winter Haven	Polk
McKay, Mary Garity	Lakeland	Polk
McKinstry, Anne	Gainesville	Alachua

Name	Postoffice	County or State
McKinstry, Belle	Gainesville	Alachua
McLeod, Edna	Arcadia	DeSoto
McMullen, Chester B.	Clearwater	Pinellas
McVey, Harvey	Palma Sola	Manatee
McWilliams, Ruth L.	Ft. Myers	Lee
Macy, Dr. Edwin E.	Eau Gallie	Brevard
Macy, Mrs. Martha O.	Eau Gallie	Brevard
Maddox, Eva V.	Apalachicola	Franklin
Maddox, J. C.	Wauchula	DeSoto
Maddox, James L.	Wauchula	DeSoto
Maddox, Lyda Emily	Micanopy	Alachua
Magill, Mrs. Mary A.	Key West	Monroe
Mahin, Mrs. Lottie E.	Hawthorn	Alachua
Maines, John Elwood	Lake Butler	Bradford
Malphurs, Ruth	Alachua	Alachua
Maney, Elizabeth	Plant City	Hillsborough
Mansell, Clyde Anna	Tampa	Hillsborough
Markwood, Frank E.	Oakland	Orange
Maroney, Mrs. I. L.	Arcadia	DeSoto
Marsh, Minnie Evalyn	Okeechobee	Okeechobee
Marshburn, Mrs. Flarra	Bonifay	Holmes
Martin, Leona	Crystal River	Citrus
Martin, Olive F.	Orange City	Volusia
Mason, Robert	Gainesville	Alachua
Massaro, A. F.	Tampa	Hillsborough
Masters, Ross	Bonifay	Holmes
Mather, Jennie	Tampa	Hillsborough
Matthews, Ella Belle	Trenton	Alachua
Matthews, Lyndal	Ocala	Marion
Maupin, Lou Ella	Tampa	Hillsborough
Maxwell, Alfred	Gainesville	Alachua
Maxwell, James	Hampton	Bradford
Mayo, Mattie Lou	Dade City	Pasco
Mazurewicz, Edmund J.	Korona	Flagler
Meredith, Mrs. Lizzie	Corpus Christi	Texas
Merritt, Loddie	Atmore	Alabama
Metcalf H. G.	Live Oak	Suwanee
Metcalfe, Mrs. H. G.	Live Oak	Suwanee
Miles, F. D.	Darlington	Walton
Miller, Hattie V.	Tavares	Lake
Miller, Helen M.	Ft. Pierce	St. Lucie
Miller, Lois	Trenton	Alachua
Miller, Nellie	Crystal River	Citrus
Miller, Robert T.	Lake City	Columbia
Mires, John J.	Osteen	Volusia
Mitchell, Pauline	Inverness	Citrus
Mixson, James L.	Williston	Levy
Mobley, Ruby L.	Pine Mount	Suwanee
Moore, Annie	Lulu	Bradford
Moore, D. H.	Clermont	Lake
Moore, Ellis	Pensacola	Escambia
Morris, Jeannette	Gainesville	Alachua
Morris, Joe Anne	Gainesville	Alachua
Mueller, Selma P.	Elkton	St. Johns
Munro, Mollie May	Delray	Palm Beach
Murphy, Mary Terese	Jacksonville	Duval
Murphy, Winifred A.	Jacksonville	Duval
Musselwhite, Wm.	Homestead	Dade
Nall, Bernice	Newberry	Alachua
Nash, Mary	Hawthorn	Alachua

Name	Postoffice	County or State
Nelson, Clarence W.	Titusville	Brevard
Nelson, Laverne M.	Tampa	Hillsborough
Nelson, Mabel H.	Tampa	Hillsborough
Newman, Sister A.	San Antonio	Pasco
Newman, Margaret E.	Clearwater	Pinellas
Oberrender, Harold S.	Oaklane	Pennsylvania
O'Bryant, Horace	Oxford	Sumter
Ogilvie, Claude S.	Gainesville	Alachua
Ormsby, Hazel R.	Lakeland	Polk
Osteen, Opal	Alachua	Alachua
Overhultz, John N.	Ft. Meade	Polk
Owens, Cora	Palatka	Putnam
Owens, Ollie	Wilcox	Alachua
Parker, Katherine	Tampa	Hillsborough
Parker, Maude	Ocala	Marion
Parker, Mollie Gray	Tampa	Hillsborough
Parrish, Jocie	Lake Butler	Bradford
Patton, W. Y.	Gainesville	Alachua
Peacock, A. J.	Lemon City	Dade
Peacock, Mrs. E. G.	Mayo	Lafayette
Peckham, Priscilla	St. Cloud	Osceola
Peeples, Lorace	Bowling Green	DeSoto
Pender, Maxmaduke S.	Sneads	Jackson
Pepper, Ellen	Gainesville	Alachua
Perry, Mildred	Tampa	Hillsborough
Person, Charles Wright	Wildwood	Sumter
Peters, Georgia	Tampa	Hillsborough
Peterson, Hilma J.	Pierson	Volusia
Pettit, Effie	Waldo	Alachua
Phelps, Mrs. Mina P.	Ozona	Pinellas
Philput, Frances	Trenton	Alachua
Pinholster, George D.	St. Petersburg	Pinellas
Pinkoson, Sallie	Gainesville	Alachua
Polk, Myrtice L.	Hawthorn	Alachua
Polk, Sara Katherine	Bronson	Levy
Pope, Charles Edward	Starke	Bradford
Potter, Paul William	West Palm Beach	Palm Beach
Priest, Alma	Anthony	Marion
Priest, Ray	Anthony	Marion
Pringle, Irene	Tampa	Hillsborough
Proctor, Donnie	Ocala	Marion
Purdy, Lillias J.	Daytona	Volusia
Puterbaugh, Hallie	Kathleen	Polk
Putnel, Jewel	Kathleen	Polk
Quinn, Ruby Lee	Williston	Levy
Raulerson, Louise	Waldo	Alachua
Ray, Eula M.	Homestead	Dade
Rayle, Ruth	Grand Island	Lake
Reeder, Nellora	Tampa	Hillsborough
Register, Ada E.	Lake Butler	Bradford
Register, Mary	O'Brien	Suwanee
Rencher, Orlin	Apopka	Orange
Revels, Fred O.	Parrish	Manatee
Revels, Mrs. Fred O.	Parrish	Manatee
Reynolds, Alice	Bunnell	Flagler
Reynolds, Flossye	Starke	Bradford
Rhodes, Inez	Live Oak	Suwanee
Richardson, Bertha	O'Brien	Suwanee
Richardson, Vergie	O'Brien	Suwanee
Richmond, Mrs. S. F.	Canal Point	Palm Beach

Name	Postoffice	County or State
Ricks, Ruby Lucile	Gainesville	Alachua
Rider, A. Leech	Tallahassee	Leon
Rigby, Wm. Clinton	Atmore	Alabama
Riggs, Ruby W.	Gainesville	Alachua
Roberts, Aaron K.	Wellborn	Suwanee
Roberts, George Carl	Trenton	Alachua
Roberts, Mamie	Bell	Alachua
Roberts, Myrtle	Bell	Alachua
Roberts, Verdie	O'Brien	Suwanee
Roberts, Walter	Zephyrhills	Pasco
Robertson, Sledge G.	Chipley	Washington
Robbins, Mrs. J. O.	Kathleen	Polk
Robbins, Margaret H.	Lady Lake	Polk
Robinson, Karl	Montverde	Lake
Rogers, Ina	Putnam Hall	Putnam
Rogers, Robert F., Jr.	Ocala	Marion
Rolfs, Effie	Gainesville	Alachua
Rooks, Earl G.	Chipley	Washington
Rooney, Mrs. J. B.	Wauchula	DeSoto
Roseborough, Rudolph W.	DeLand	Volusia
Rowland, Inez	Harbor View	DeSoto
Safer, Abram W.	Hampton	Bradford
Salmi, Annie L.	Alachua	Alachua
Sampiro, Jose de	Sao Paulo	Brazil
Sands, Isabel	Key West	Monroe
Sapp, Gertrude	Bell	Alachua
Sapp, Janie	Raiford	Bradford
Saunders, Maude	DeFuniak Springs	Walton
Scofield, Joe W.	Inverness	Citrus
Scofield, Mary	Inverness	Citrus
Scotten, Rawley	Gainesville	Alachua
Seacole, Lottie E.	Eustis	Lake
Semmes, Sister Catherine	Tampa	Hillsborough
Shaver, Faustine L.	Wauchula	DeSoto
Shaw, Benjamin C.	Ormond	Volusia
Shellman, Marie Elizabeth	Tampa	Hillsborough
Shuflin, Ada E.	Jupiter	Palm Beach
Shumate Eugenia	Bartow	Polk
Shumate, Sarah	Bartow	Polk
Simmons, Birda	Lake Wales	Polk
Simms, Alice	Pinetta	Madison
Simms, Chloe	Pinetta	Madison
Simms, Ethel	Pinetta	Madison
Smedley, Joseph M.	Ocala	Marion
Smedley, Mary	Santos	Marion
Smith, Caroline Ellen	Trenton	Alachua
Smith, Charles F., Jr.	Gainesville	Alachua
Smith, Clinton F.	Center Hill	Sumter
Smith, Helen A.	Gainesville	Alachua
Smith, Iris N.	Tampa	Hillsborough
Smith, Neal M.	Montverde	Lake
Smith, William R.	Panama City	Bay
Smith, Y. J. A.	Lawrenceville	Georgia
Smith, Mrs. Y. J. A.	Lawrenceville	Georgia
Sowell, Alma	Groveland	Lake
Sparkman, John W.	Webster	Sumter
Sparkman, Onita W.	Plant City	Hillsborough
Stanfill, E. M.	Bristol	Liberty
Stanfill, Maurice E.	Bristol	Liberty
Steedly, Hubert Fulton	Bamberg	South Carolina

Name	Postoffice	County or State
Stephens, Lelon F.	Ona	DeSoto
Stephens, Mrs. Mamie Lou	Apopka	Orange
Stinson, Paul Watson	Tarpon Springs	Pinellas
Stivender, Mrs. M. B.	Leesburg	Lake
Stock, Joseph W.	Interlachen	Putnam
Storms, Muriel M.	Zephyrhills	Pasco
Strickland, Nellie	Starke	Bradford
Stuart, Ollie LeGrande	Bradentown	Manatee
Stuart, Mrs. Ollie LeGrande	Bradentown	Manatee
Sumner, Ruth	St. Petersburg	Pinellas
Sundy, Mrs. J. S.	Delray	Palm Beach
Swartz, Frederick G.	Gainesville	Alachua
Sweat, Kathleen	Green Cove Springs	Clay
Swint, Ione Elizabeth	Sanibel	Lee
Tatom, Louis Jeter	Pensacola	Escambia
Taylor, Fannie I.	Lake City	Columbia
Taylor, Lera Hattie	Mayo	Lafayette
Thomas, Elma	Green Cove Springs	Clay
Thomas, Harvey Lee	Center Hill	Sumter
Thomas, Jessie	Starke	Bradford
Thomson, Anna Blair	Gainesville	Alachua
Tilley, Mrs. Lucy Gaines	Winter Haven	Polk
Todd, Farron C.	Gainesville	Alachua
Todd, Mrs. J. O.	Gainesville	Alachua
Todd, Pearl Ardella	Center Hill	Sumter
Tolbert, H. L.	Ft. White	Columbia
Torano, Emma	Key West	Monroe
Traylor, Clealia May	Plant City	Hillsborough
Truby, Duke	Gainesville	Alachua
Tucker, Durand	Gainesville	Alachua
Tucker, Ethel	Gainesville	Alachua
Tucker, Kathryn	Gainesville	Alachua
Tulane, Lida	St. Petersburg	Pinellas
Turner, Cleavy	Lake City	Columbia
Ulmer, Ira J.	Largo	Pinellas
Vause, Nellie	East Palatka	Putnam
Venable, Alice	Caxambas	Lee
Vrooman, Devoux	Gainesville	Alachua
Walker, Chas. H.	Lake Wales	Polk
Walker, Jessie Inez	Bronson	Levy
Walker, Judson B.	Baker	Okaloosa
Walker, Ray H.	Tampa	Hillsborough
Walker, Mrs. Rosa L.	Lake Wales	Polk
Wang, Chin-Wu	Honan	China
Ward, Evelyn	Eustis	Lake
Ware, Ruby	Worthington	Bradford
Watson, Elva	Floral City	Citrus
Watson, Emma	Frostproof	Polk
Watson, John W.	Ft. Meade	Polk
Watson, Wilma	Gainesville	Alachua
Webb, Richard S.	White Springs	Hamilton
Weber, Eleanor E.	Tampa	Hillsborough
Weedon, Frederick R.	Tampa	Hillsborough
Weigel, Erna	Elkton	St. Johns
Wells, Janie Maria	Center Hill	Sumter
West, Lucy N.	Jacksonville	Duval
Westmoreland, Blanche	Live Oak	Suwanee
Wetherbee, Leta A.	St. Cloud	Osceola
Wetzel, Mrs. Eva M.	Jacksonville	Duval
Wheeler, Joseph A.	Key West	Monroe

Name	Postoffice	County or State
Whidden, Stella	Mulberry	Polk
Whitaker, Clarissa	Rochelle	Alachua
Whitaker, Inez	Rochelle	Alachua
White, Leta	Mayo	Lafayette
White, Ruth	Gainesville	Alachua
Whitelaw, Ione	Floral City	Citrus
Whitelaw, Laura	Floral City	Citrus
Whitner, Benjamin F., Jr.	Sanford	Seminole
Wilder, Vivian Sarah	Bartow	Polk
Wilkinson, S. A. B.	Gainesville	Alachua
Williams, Eva	Hampton	Bradford
Williams, Gertrude E.	Hallandale	Brevard
Williams, Miss M. E.	Chipley	Washington
Williams, Willie	Ft. Meade	Polk
Williamson, B. Finley, Jr.	Gainesville	Alachua
Willoughby, Alice	Gainesville	Alachua
Willoughby, Claude H.	Gainesville	Alachua
Willoughby, Mrs. Gertrude E.	Gainesville	Alachua
Wimberly, Wallace M.	Highland	Clay
Winfield, Mary E.	O'Brien	Suwanee
Witt, Norman	Ft. White	Columbia
Womble, Sue	Apopka	Orange
Wood, Harry Evins	Evinston	Alachua
Woolf, Madula	Gainesville	Alachua
Wooten, Helen Margaret	Sutherland	Pinellas
Wright, Hazel Leonora	Zephyrhills	Pasco
Wright, John R.	Wauchula	DeSoto
Wuthrick, E. B.	Brewster	Polk
Wynn, Orabel	Gainesville	Alachua
Wynns, Willie	Wildwood	Sumter
Yarbrough, T. W.	Sarasota	Manatee
Yates, W. S.	Plant City	Hillsborough

FARMERS' TEN-DAY SHORT COURSE—JANUARY 6-16, 1920

Name	Postoffice	County or State
Andres, Dan M.	Sebring	DeSoto
Bishop, G. M.	Baldwin	Duval
Bishop, J. E.	Summertown	Georgia
Bishop, William George	Lincoln	Nebraska
Blackburn, H.	Ocala	Marion
Blake, Golph E.	Dade City	Pasco
Blake, Mrs. Ruth Mary	Dade City	Pasco
Booth, E. T.	Winter Haven	Polk
Bresee, Oscar G.	Tampa	Hillsborough
Chapman, Mrs. A. R. J.	Port Orange	Volusia
Clinger, D. S.	Manchester	Ohio
Clinger, S. T.	Manchester	Ohio
Coffey, W. P.	Gainesville	Alachua
Coleman, George D.	Gainesville	Alachua
Cone, Hobson Tyson	Raleigh	Levy
Curg, James	Bartow	Polk
Curlee, W. M.	Gainesville	Alachua
Doran, A. H.	Gainesville	Alachua
Doran, Mrs. Maggie	Gainesville	Alachua
Dorsett, Alice M.	Branford	Suwanee
Frunk, Clara J.	Providence	Rhode Island
Gilbo, Michael J.	Lakeland	Polk
Gockring, Richard H.	Gainesville	Alachua

Name	Postoffice	County or State
Gunn, Mrs. A. R.	Gainesville	Alachua
Harn, Julia	Gainesville	Alachua
Harrison, Marjorie Emmons	DeLand	Volusia
Hayes, William	Jersey City	New Jersey
Hodge, Mrs. C. F.	Gainesville	Alachua
Howard, L. L.	Gainesville	Alachua
Jaeger, Gideon	Sebring	DeSoto
Lee, Mrs. Emma Shaw	Crooked Lake	Polk
Lofbery, Victor T.	DeLand	Volusia
McDavid, Ruby	Hinson	Gadsden
Magoon, C. H.	Valrico	Hillsborough
Painter, Mrs. Chas. S.	Ocala	Marion
Presbis, John Andrew	Favoretta	Volusia
Prince, Mrs. W. W.	Gainesville	Alachua
Ramsey, E. M.	Gainesville	Alachua
Randall, Irene	Gainesville	Alachua
Rottermer, H. E.	Jacksonville	Duval
Rottermer, Mrs. Henry E.	Jacksonville	Duval
Russell, Mrs. Mary	Tallahassee	Leon
Sanborn, Mrs. N. W.	Gainesville	Alachua
Shine, James Henry	Luverne	Alabama
Sipprell, Floresa	Palatka	Putnam
Sluyter, Edwin	Molino	Escambia
Smitb, Albina	Kissimmee	Osceola
Smith, E. A.	Madison	Madison
Stowe, E. B.	Sanford	Seminole
Stowe, Mrs. E. B.	Sanford	Seminole
Taylor, Posey	Lloyd	Jefferson
Walker, S. S.	Tampa	Hillsborough
Warren, Albert	Brooksville	Hernando
White, I. H.	Houtzdale	Pennsylvania
White, Mrs. Mary A.	Houtzdale	Pennsylvania

CLUB BOYS—DECEMBER 1-8, 1919

Name	Postoffice	County or State
Alderman, David	Arcadia	DeSoto
Alderman, Jesse	Lakeland	Polk
Anderson, Willie	Chicora	Polk
Baker, Ralph	O'Brien	Suwanee
Barker, Jesse W.	Plant City	Hillsborough
Barrineau, Harvey	Quintette	Duval
Bennett, Nelson N.	Alachua	Alachua
Bird, Henry	Perry	Taylor
Blitch, DeFay	Plant City	Hillsborough
Booth, Charlie	Plant City	Hillsborough
Bowdoin, John	Perry	Taylor
Brown, Eurie	Lake Butler	Bradford
Brown, Joe	St. Augustine	St. Johns
Buie, Harold B.	Bayard	Duval
Camp, Robert	Milton	Santa Rosa
Carnes, Carl C.	Florahome	Putnam
Carnes, Ernest	Florahome	Putnam
Clark, Earnest	Bartow	Polk
Clark, W. Olive	Bartow	Polk
Coleman, DeWitt	Live Oak	Suwanee
Collins, Lonnie	Oneco	Manatee
Cottingham, G. W.	Florahome	Putnam
Culpepper, Broward	Perry	Taylor
Davenport, Vernon	Wellborn	Suwanee

Name	*Postoffice*	*County or State*
Dorsett, Henry	Branford	Suwanee
Douglas, Arthur R.	Ocala	Marion
Downing, Rollo E.	Parrish	Manatee
Downing, Shelton V.	Parrish	Manatee
Edenfield, Willie W.	Branford	Suwanee
Ellerbe, Thos. H.	Wimauma	Hillsborough
English, Alton	Plant City	Hillsborough
Faulkner, Kenneth	Dowling Park	Suwanee
Floyd, Lewis	Cantonment	Escambia
Fraser, Jas. E.	Hawthorn	Alachua
Futch, James	Plant City	Hillsborough
Gammon, J. C.	Dowling Park	Suwanee
Gran, Ruben	Micco	Brevard
Griffith, Ernest	Galliver	Okaloosa
Guess, Millard	Bee Ridge	Manatee
Hammer, Clifford	Davie	Broward
Haynes, J. E., Jr.	Pensacola	Escambia
Hilliard, Roy	Pineda	Brevard
Hodge, Ruff	Newberry	Alachua
Holland, Roy	Milton	Santa Rosa
Holman, Guy	Okeechobee City	Okeechobee
Jenkins, Roy	Pine Mount	Suwanee
Johnson, Alton	Holt	Santa Rosa
Johnson, Eugene	Holt	Santa Rosa
Johnson, Joseph A.	Goulds	Dade
Jones, Albert	Live Oak	Suwanee
Law, Dan T.	Live Oak	Suwanee
Leggett, Clinton	McAlpin	Suwanee
McCollough, Ivey	Lee	Madison
McCullers, Alton	Live Oak	Suwanee
McGrath, Richard	Florahome	Putnam
Mader, Herman	Bayard	Duval
Mann, George W.	Bartow	Polk
Martin, Lamar	Branford	Suwanee
Miley, Don	Plant City	Hillsborough
Miley, Glenn	Plant City	Hillsborough
Mobley, Lacy	McClenny	Baker
Motes, Earnest	Hollister	Putnam
Mountain, Bernard	Dade City	Hernando
Neil, Vernon	Ocala	Marion
Nesmith, Louis	Plant City	Hillsborough
Payne, G. S., Jr.	Dowling Park	Suwanee
Payne, Minas	Dowling Park	Suwanee
Peterson, Cephas	Branford	Suwanee
Pickett, Willis	Grand Crossing	Duval
Pinaire, John	Lake Hamilton	Polk
Pipkin, Francis	Lakeland	Polk
Rains, Early	Madison	Madison
Revels, Percy B.	Florahome	Putnam
Rhoden, Clarence	Raiford	Bradford
Robertson, Victor	Vero	St. Lucie
Rogers, Cyril G.	Wellborn	Suwanee
Rowell, Jack	Branford	Suwanee
Royalls, Deal	Darlington	Holmes
Scarborough, Russell	O'Brien	Suwanee
Seals, Roy Claude	Madison	Madison
Skipper, Everett	Hague	Alachua
Skipper, Samuel E.	Hague	Alachua
Smith, David	Jennings	Hamilton
Smith, John, Jr.	Newberry	Alachua

Name	*Postoffice*	*County or State*
Smith, Paul	Jennings	Hamilton
Statt, Paul	Bonifay	Holmes
Stephens, Carl C.	Chicora	Polk
Stokes, Seeber	Lake Butler	Bradford
Taylor, C. H., Jr.	Plant City	Hillsborough
Taylor, Powers	Plant City	Hillsborough
Turner, Robert	Bristol	Liberty
Tuten, Ralph G.	Jasper	Hamilton
Tyre, George O.	Florahome	Putnam
Walker, Burton	Madison	Madison
Watson, Arnold	South Jacksonville	Duval
Watson, Douglas	South Jacksonville	Duval
Webb, Luther	Plant City	Hillsborough
Wernicke, Elmore	Brooksville	Hernando
Wingate, Lem	Grand Crossing	Duval
Yates, Jeffery D.	Arcadia	DeSoto
Young, Morriss	Plant City	Hillsborough

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College	129	
Two-Year Course	26	
One-Year Course	32	
Four-Month Course	8	
		195
College of Engineering		150
College of Law		94
Teachers College and Normal School—		
College	28	
Normal School	31	
Practice High School	13	
Summer School	612	
		684
Total Enrollment for 1919-1920		1305
Counted twice		29
Net Total		1276
Number attending Boys' Short Course in Agriculture		101
Number attending Farmers' Ten-Day Short Course		55
Grand Total		1432

SUMMARY BY STATES AND FOREIGN COUNTRIES

	Summer Session 1919	Regular Session 1919-20
Alabama	3	4
Brazil	2	3
China	1	1
Connecticut	0	1
Delaware	0	1
District of Columbia	0	2
Florida	592	606
Georgia	8	6
Indiana	0	1
Kentucky	0	3
Maine	0	2
Massachusetts	0	1
Michigan	0	4
Minnesota	0	1
Mississippi	1	1
Missouri	0	2
New York	0	4
North Carolina	0	2
Ohio	0	4
Pennsylvania	1	4
Philippines	0	1
Serbia	0	2
South Carolina	2	1
Tennessee	1	6
Texas	1	0
West Virginia	0	1
Total	612	664

SUMMARY BY COUNTIES	Summer Session 1919	Regular Session 1919-20
Alachua	123	57
Baker	0	1
Bay	4	6
Bradford	25	13
Brevard	9	4
Broward	0	4
Calhoun	0	4
Citrus	10	4
Clay	4	3
Columbia	13	12
Dade	9	31
DeSoto	30	25
Duval	10	53
Escambia	6	21
Flagler	6	0
Franklin	1	2
Gadsden	2	10
Hamilton	2	6
Hernando	1	1
Hillsborough	51	77
Holmes	2	4
Jackson	2	11
Jefferson	2	5
Lafayette	6	2
Lake	17	13
Lee	16	8
Leon	1	10
Levy	9	5
Liberty	2	0
Madison	6	3
Manatee	12	10
Marion	17	18
Monroe	14	5
Nassau	0	1
Okaloosa	2	9
Okeechobee	4	0
Orange	10	15
Osceola	4	7
Palm Beach	11	13
Pasco	15	5
Pinellas	20	26
Polk	30	32
Putnam	8	10
St. Johns	9	5
St. Lucie	2	10
Santa Rosa	2	7
Seminole	5	7
Sumter	21	7
Suwanee	17	5
Taylor	1	1
Volusia	12	6
Wakulla	0	2
Walton	3	4
Washington	4	6
Total from fifty-four Florida Counties	592	606
Total from other States and Foreign Countries	20	57
Net Total	612	664
		1276

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UNIVERSITY OF FLORIDA

College of Law

GAINESVILLE

TWELFTH

ANNUAL ANNOUNCEMENT

1920-1921

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THE
UNIVERSITY OF FLORIDA
GAINESVILLE

Supported by the State and Federal Government for the Liberal and Professional Education of Young Men

A State University of High Standards, Ranking with the Largest and Best Universities of the North and East.

Stands for the Highest Moral, Intellectual, and Physical Development of the Nation's Future Citizens.

ORGANIZATION

1. The College of Arts and Sciences offers excellent advantages for a liberal education and confers the degrees of B.A. and B.S.

2. The College of Agriculture provides superior advantages for instruction and training in various branches of agriculture, and confers the degree of B.S.A.—many short courses offered.

3. The College of Engineering affords the very best technological training in chemical, civil, electrical, and mechanical engineering, leading to appropriate Bachelor's degrees in engineering.

4. The College of Law—the best in the country for future practitioners of Florida. The degrees of LL.B. and J.D. are conferred. Graduates are admitted to the bar without further examination.

5. The Teachers' College confers the degrees of B.S. and B.A. in philosophy and education and provides normal training for those desiring to enter any department of the public school service. State certificates are granted to Normal School and Teachers' College graduates without further examination. The leading teachers' college in this territory. $40,000 gift from the Peabody Board for the building occupied by this college.

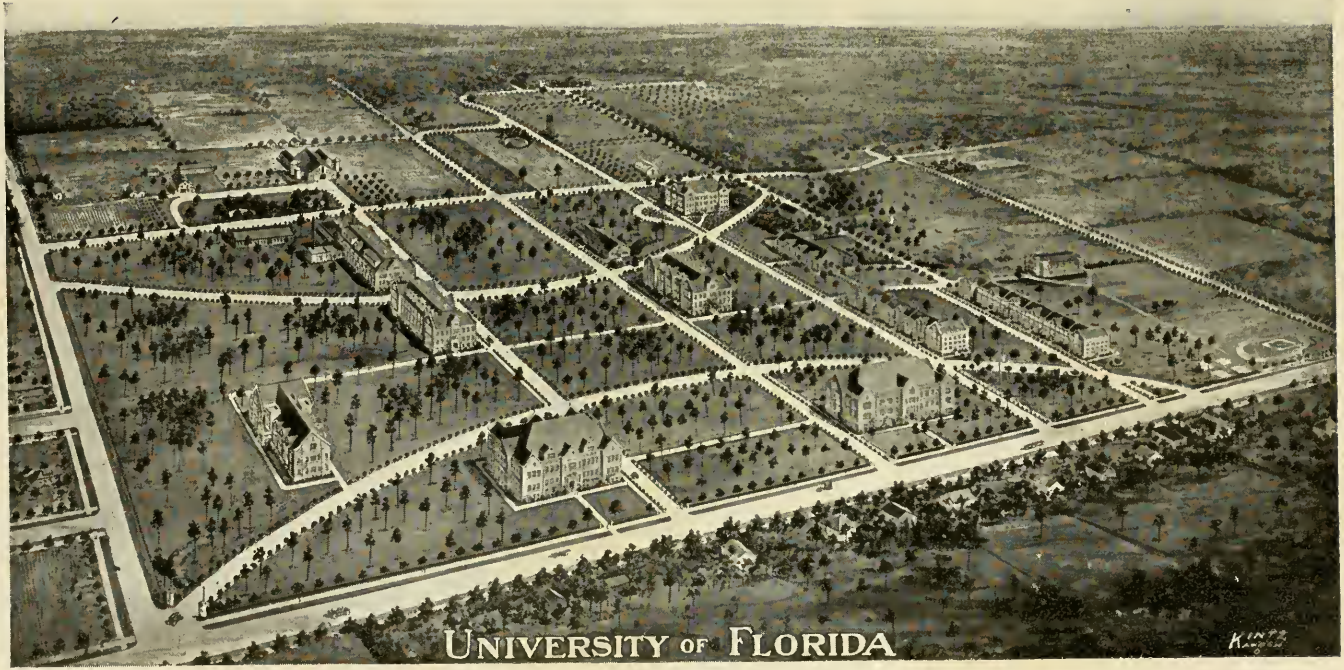
6. The Graduate School offers courses leading to the degrees of Master of Arts and Master of Science.

7. The Agricultural Experiment Station.

8. The University Extension Division.

For catalog or further information address

A. A. MURPHREE, LL.D., President
University of Florida, Gainesville, Fla.



Bird's-Eye View of the University Campus as it is Being Developed

UNIVERSITY CALENDAR

1920-1921

1920—June 14, *Monday*.....Summer School begins.
August 6, *Friday*.....Summer School ends.
September 20, *Monday*.....Summer Recess ends.
Examination for Admission.
Registration of Students.
September 21, *Tuesday*.....First Semester begins.
September 28, *Tuesday*.....Livestock Roundup begins.
October 2, *Saturday, 2:00 p. m.*.....Re-examinations.
2:30 p. m......Meeting of General Faculty.
October 4, *Monday*.....School for County Demonstration Agents begins.
October 12, *Tuesday*.....Citrus Seminar begins.
November 25, *Thursday*.....Thanksgiving Holiday.
December 6, *Monday*.....Boys' Club Week begins.
December 18, *Saturday, 12:00 noon*.....Christmas Recess begins.
1921—January 1, *Saturday*.....Christmas Recess ends.
January 3, *Monday, 8:00 a. m.*.....Resumption of Classes.
Review Courses for Teachers begin.
January 4, *Tuesday*.....Ten-Day Courses for Farmers begin.
February 5, *Saturday*.....First Semester ends.
February 7, *Monday*.....Second Semester begins.
February 19, *Saturday, 2:30 p. m.*.....Meeting of General Faculty.
March 5, *Saturday, 2:00 p. m.*.....Re-examinations.
June 4, *Saturday, 2:30 p. m.*.....Meeting of General Faculty.
June 5 to 7.....Commencement Exercises.
June 5, *Sunday*.....Baccalaureate Sermon.
June 6, *Monday*.....Oratorical Contests.
Annual Alumni Meeting.
Class-Day Exercises.
June 7, *Tuesday*.....Graduating Day.
June 8, *Wednesday*.....Summer Recess begins.
June 13, *Monday*.....Summer School begins.

BOARD OF CONTROL

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Professor of Public Speaking

AGATHA FREEMAN WALSH
Librarian and Secretary to the Dean

Three classes of men should read law—the lawyer for his profession, the business man for business reasons, and every man for increased efficiency and his own protection.—*Blackstone.*

HISTORY

Largely thru the influence of Hon. Nathan P. Bryan, then a member of the Board of Control of the University, the College of Law was established in 1909. From this time until 1917 the course comprised the work of two years. With the session of 1917-18 the present three-year course was inaugurated.

At first the College was quartered in Thomas Hall, one of the dormitories. At the opening of the session of 1913-14 more spacious rooms were provided in Language Hall. During the following summer and fall the present structure was erected and on Thanksgiving Day, 1914, the College, with fitting ceremonies, took possession of its own home, the finest law school building in the South.

PURPOSE

It is the purpose of the College to impart a thoro, scientific, and practical knowledge of the law, and thus to equip its students to take advantage of the splendid opportunities the present readjustments in business and social life are creating. It aims to develop keen, efficient lawyers, conversant with the ideals and traditions of the profession. Its policy is characterized by the emphasis of practice as well as theory; pleading as well as historical perspective; skill in brief making as well as legal information.

EQUIPMENT

BUILDING.—This splendid structure is one hundred seventy-two feet long, seventy feet wide, and two and one-half stories high. It contains a large, well-lighted library, furnished with bookstacks, library tables, librarian's office, and consultation rooms for students and faculty. It has three commodious lecture-rooms, together with the offices of administration, and the offices of the several resident professors. It contains, also, an elegant courtroom and auditorium, handsomely finished in panel work. The courtroom has all the usual accessories, jury box, witness stand, judge's office, and jury room, and is connected with the library below by a circular stairway. Every interest of the College has been provided for, including attractive quarters for the Marshall Debating Society. The

building is steam-heated, lighted by electricity, and equipped thruout with a superior grade of furniture. It is devoted exclusively to the uses of the College of Law and furnishes accommodations as comfortable and as convenient as can be found in the country.

LIBRARY.—The Law Library contains all the published reports of the courts of last resort of every State in the Union and of the Federal Courts, the full English Reprints, the English Law Reports, the reports of the Interstate Commerce Commission and the Land Decisions of the Department of the Interior besides an excellent collection of digests, encyclopedias, series of selected cases, treatises and text books, both English and American. The Library also contains the Statutes of several of the States besides those of the Federal Government, and is a subscriber to the leading legal periodicals. A course of instruction is given in legal bibliography and the use of law books. Every facility also is offered law students to make use of the General Library, in which are included works of interest and information to the lawyer. Both libraries are open during the academic year on every secular day between the hours of 8:00 A. M. and 10:00 P. M. and are in charge of trained librarians, who will render such aid as the students may need in their use of the books.

GYMNASIUM.—A brick and stone structure of two stories and basement, one hundred and six feet long and fifty-three wide. It is steam-heated, supplied with hot water, and well-lighted and ventilated. A gallery around the main floor provides space for spectators at gymnastic exhibitions. The basement contains lockers, shower baths and toilets. Adjacent is a swimming-pool, thirty-six feet long and twenty-four feet wide, and from four and one half to seven feet deep. Organized classes are conducted by the Professor of Physical Culture.

FLEMING FIELD.—A large and well-kept athletic field equipped for the various outdoor games and sports which in this climate are carried on the year round. In 1919 this field was used by the New York Giants for their spring training.

ATTENDANCE

For the session of 1919-20 the College enrolled ninety-eight students. This is a gain of more than 53 per cent over the enrollment of the preceding year and the largest attendance

the College has ever had. Eighteen were graduated, three of this number receiving the degree of Juris Doctor.

A still larger attendance during the session of 1920-21 is anticipated. Students, therefore, are urged to reserve rooms in the dormitories at the earliest possible date. Application should be made to Miss W. B. Ellis, Registrar. A deposit of $5.00, which will be credited on fees, must accompany the application.

ADMISSION

REQUIREMENTS FOR ADMISSION.—Graduates and matriculates of colleges and universities and applicants who have completed a high-school course of four years will, upon presentation of proper credentials to that effect, be admitted to the College as candidates for a degree. Other applicants for admission as regular students will be required to pass an entrance examination. No applicant under eighteen years of age will be admitted.

The four-year high-school course required for admission must consist of sixteen units (fifteen units as defined by the Carnegie Foundation or the National Educational Association). A unit represents a course of study pursued thruout the school year with five recitation periods of at least forty-five minutes each per week, four courses being taken during each of the four years.

Eight units are prescribed; viz.: English 3; Mathematics 3; History 1; Science 1. The remaining units may be chosen from the following electives: Botany ½ or 1; Chemistry 1; English 1; Latin 4; History 2; Mathematics 1; Modern Languages (French, German, or Spanish) 2; Physical Geography 1; Physics 1; Zoology ½ or 1; vocational subjects (Typewriting, Stenography, Mechanic Arts, Agriculture, etc.) 4.

Certificates of scholastic record signed by the principal of the school attended must be presented by all those who do not enter by examination. Blank forms, conveniently arranged for the desired data, will be sent upon application.

SPECIAL STUDENTS.—Persons over twenty-one years of age who are not able to qualify as regular students may be admitted as special students upon presenting satisfactory evidence that they have received such training as will enable

them to make profitable use of the opportunities offered in the College.

ADVANCED STANDING.—No work in law done in other institutions will be accepted towards a degree, unless the applicant passes satisfactorily the examinations held in the subjects in question in this College, or unless, by special vote of the Faculty, credit is given without examination. Credit from any school offering no more than two years of law studies and not maintaining an approved standard of admission will not be accepted. The admission requirements of any school from which credit will be received must be shown definitely by its catalog to be not less than fifteen high-school units. Where a school is known to have made relaxing departures from its published entrance requirements or course of study, the acceptance of credit from such institution will not be considered. In no case will credit be given for work not done in residence at an approved law school.

EXPENSES

The yearly expenses of a law student, exclusive of clothes and incidentals, may be summarized as follows:

Tuition	$40.00
Registration and Contingent Fee	10.00
Damage Fee	5.00
Infirmary Fee	3.00
Board and Lodging	180.00
Books (about)	50.00
	$288.00

Tuition is payable in advance, $20.00 each semester. Students taking less than eleven hours of work are charged a proportionate part of the full tuition.

The cost of books for the first year will approximate $45.50; for the second $42.50-$53.00, depending on the electives taken; for the third $55.50.

Students are urged to provide themselves with the Statutes of their state and a law dictionary. These books will form a nucleus for the student's future library, and by the purchase of second-hand books the cost may be materially reduced.

The charge for board, lodging and janitor service is payable in advance, $90.00 per semester, exclusive of the Christmas vacation.

Board without lodging will be furnished at the rate of $20.00 per calendar month, payable in advance.

For more detailed statements reference is made to the University catalog, pp. 32-35.

UNIVERSITY PRIVILEGES

ELECTIVES IN OTHER COLLEGES.—The advantages of the other colleges of the University are open to such students in the College of Law as desire and are able to accept them. Courses in History, Economics, Sociology, Psychology, Logic and English are particularly recommended. No extra charge is made for such courses, but they can be taken only with the consent of the Law Faculty and of the professors concerned.

MILITARY SCIENCE AND TACTICS.—The University has an Infantry Unit, Senior Division of the Reserve Officers' Training Corps, to membership in which law students are eligible. They are not required, however, to join this organization or to take any other military drill.

PUBLIC SPEAKING AND DEBATING

INSTRUCTION.—Regular classes in oratory and public speaking are organized and conducted by the professor of public speaking. A small tuition is charged.

MARSHALL DEBATING SOCIETY.—Early in the first year of the College the students organized a society that would secure to its members practice in debating and public speaking and experience in arguing legal questions, as well as drill in parliamentary law. The society was fittingly named "The Marshall Debating Society", in honor of the distinguished Southern jurist, John Marshall.

DEGREES

BACHELOR OF LAWS.—The degree of Bachelor of Laws (LL.B.) is conferred upon those students who satisfactorily complete the courses of study. Students admitted to advanced standing may, if they do satisfactorily the work prescribed, receive the degree after one year's residence, but in no case

will the degree be granted unless the candidate is in actual residence during all of the third year.

Juris Doctor.—Students who have complied with all the requirements for the degree of Bachelor of Laws (LL.B.), who have maintained an average standing in their law studies of 10% above the passing mark, and who have obtained the degree of A.B., or an equivalent degree, from an approved College or University, or who secure such degree the same year they complete their law course, will be awarded the degree of Juris Doctor (J.D.).

Combined Academic and Law Course.—By pursuing an approved course of collegiate and law studies a student may earn both the academic and the legal degree in six years. Candidates for either the A.B. or the B.S. degree may elect twelve hours of work from the first year of the course of the College of Law and count the same as credits toward the aforesaid degrees. Such degrees will not be conferred, however, until after the completion of the second year of the law work.

Master of Arts.—Candidates for the degree of Master of Arts are permitted to take a portion of their work under the Faculty of Law.

ADMISSION TO THE BAR

Upon presenting their diplomas, duly issued by the proper authorities, and upon furnishing satisfactory evidence that they are twenty-one years of age and of good moral character, the graduates of the College are licensed by the Supreme Court, without examination, to practice in the Courts of Florida. They also are admitted without examination to the United States District Court for the Northern District of Florida.

EXAMINATIONS

The last week of each semester is devoted to examinations covering the work of the semester. These examinations are in writing and are rigid and searching, but are not necessarily final.

A delinquent examination is allowed for the removal of conditions, except in subjects where the semester grade falls below 60. All students, unless excused by the Dean, must

present themselves for the regular examination in all the subjects for which they are registered.

LECTURES

In addition to the courses given by the regular Faculty, lectures are given each year by eminent specialists in the profession, both at the bar and on the bench. The Justices of the Supreme Court of the State especially have been generous in giving of their time and services in this way. Both Faculty and students feel exceedingly grateful to these lecturers for the kindly interest they have manifested in the College and for the resulting uplift and inspiration.

PLEADING AND PRACTICE

COURSES.—Differing from some other law schools, this College is convinced that an intensive knowledge of pleading and practice should be secured by the student, since legal rights cannot be well understood without a mastery of the rules of pleading whereby they are enforced. As Lord Coke declared: "Good pleading is the touchstone of the true sense and knowledge of the common law." The development of right has depended upon the development of actions; the rule of law was the rule of writs and in large measure remains so today. Consequently the College offers thoro courses in Criminal Pleading and Procedure, Common Law Pleading, Equity Pleading, Code Pleading, Florida Civil Practice, General Practice, and Federal Procedure. Thus the student on graduation is enabled to enter understandingly upon the practice of law; and to this fact the College attributes much of the rapid advancement of its Alumni.

As young men from all parts of the country in increasing numbers are attending the University, combining the advantages of travel, new associations, and salubrious climate with those of the superior educational facilities here afforded, the College has arranged to serve those who intend to practice elsewhere as efficiently as those who expect to locate in this State. Students preparing for the practice in other states are offered Code Pleading and General Practice instead of Florida Constitutional Law and Florida Civil Practice, as shown in the course of study. Such students also are required to submit an acceptable dissertation showing the peculiarities of

pleading and practice of the State in which they expect to locate.

THE PRACTICE COURT.—Believing the students obtain in the Practice Court a better practical knowledge of pleading and practice than can be acquired in any other way, aside from the trial of actual cases, the Faculty lay special emphasis upon this work. Sessions of the Practice Court are held thruout the year in an admirably equipped courtroom. A clerk and a sheriff are appointed from the Senior class, and regular records of the court are kept. Each student is required to participate in the trial of at least one common law, one equity, and one criminal case, and is instructed in appellate procedure. The Practice Court is conducted by Judge Cockrell and Professor Crandall.

CURRICULUM*

FIRST YEAR

FIRST SEMESTER

TORTS.—History and definitions; elements of torts; conflicting rights; mental anguish; parties to tort actions; remedies; damages; conflict of laws; methods of discharge; exhaustive study of particular torts: false imprisonment, malicious prosecution, abuse of process, conspiracy, slander and libel, trespass, conversion, deceit, nuisance, negligence, and others. Textbooks: Burdick on Torts and Burdick's Cases on Torts, 3rd edition. *(5 hours. Dean Trusler.)*

CONTRACTS I.—Formation of contract; offer and acceptance; form and consideration; reality of consent; legality of object; operation of contract; limits of the contract obligation; assignment of contract; joint obligations; interpretation of contract. Textbooks: Anson's Law of Contract, Corbin's Edition; Huffcut and Woodruff's Cases on Contract. *(4 hours. Professor Moore.)*

CRIMINAL LAW.—Sources of criminal law; nature and elements of crime; criminal intent; insanity; intoxication; duress; mistake of fact or law; justification; parties in crime; offenses against the person, habitation, property, public health and morals, public justice and authority, government, and

*The texts announced are subject to change; but assurance is given that few changes will be made.

the law of nations. Textbook: Clark on Criminal Law; selected cases. *(2 hours. Professor Cockrell.)*

CRIMINAL PROCEDURE.—Jurisdiction; arrest; preliminary examination and bail; grand jury, indictment and information and their sufficiency in form and substance; arraignment, pleas, and motions; *nolle prosequi* and motions to quash; jeopardy; presence of defendant at the trial; verdict; new trial; arrest of judgment; judgment, sentence, and execution. Textbook: Clark's Criminal Procedure; selected cases. *(2 hours. Professor Cockrell.)*

PROPERTY I.—Personal property; possession and rights based thereon; acquisition of title; liens and pledges; conversion. Textbook: Warren's Cases on Property. *(2 hours. Professor Crandall.)*

SECOND SEMESTER

EQUITY JURISPRUDENCE.—History and definition; jurisdiction; maxims; accident, mistake, fraud; penalties and forfeitures; priorities and notice; bona fide purchasers; estoppel; election; satisfaction and performance; conversion; equitable estates, interest, primary rights; trusts; powers, duties, and liabilities of trustees; mortgages; equitable liens; assignments; specific performance; injunction; reformation; cancellation; cloud on titles; ancillary remedies. Textbook: Eaton on Equity; selected cases. *(5 hours. Dean Trusler.)*

CONTRACTS II AND QUASI CONTRACTS.—Rules relating to evidence and construction; discharge of contract. Origin and nature of quasi contract; benefits conferred in misreliance on rights or duty, from mistake of law, and on invalid, unenforceable, illegal, or impossible contract; benefits conferred thru dutiful intervention in another's affairs; benefits conferred under constraint; action for restitution as alternative remedy for breach of contract and for tort. Textbooks: Anson's Law of Contract, Corbin's Edition; Huffcut and Woodruff's Cases on Quasi Contracts. *(3 hours. Professor Moore.)*

MARRIAGE AND DIVORCE.—Marriage in general; nature of the relation; capacity of parties; annulment; divorce; suit, jurisdiction, grounds; defenses; alimony; effect on property rights; custody and support of children; agreements of separation. Textbook: Vernier's Cases on Marriage and Divorce. *(1 hour. Professor Kline.)*

COMMON LAW PLEADING.—History and development of the personal actions at common law; theory of pleading and its peculiar features as developed by the jury trial; demurrers, general and special; pleas in discharge, in excuse, and by way of traverse; replication *de injuria;* duplicity; departure; new assignment; motions based on pleadings; general rules of pleadings. Textbook: Andrews' Stephen's Common Law Pleadings. *(3 hours. Professor Crandall.)*

SALES.—Sale and contract to sell; statute of frauds; illegality; conditions and warranties; delivery; acceptance and receipt; vendor's lien; stoppage *in transitu;* bills of lading; remedies of seller and buyer. Textbook: Burdick on Sales; selected cases. *(1 hour. Professor Moore.)*

PROPERTY II.—Introduction to the law of conveyancing; rights incident to the ownership of land, and estates therein, including the land itself, air, water, fixtures, emblements, waste; profits; easements; licenses; covenants running with the land. Textbook: Warren's Cases on Property. *(2 hours. Professor Crandall.)*

SECOND YEAR

FIRST SEMESTER

UNITED STATES CONSTITUTIONAL LAW.—General principles; distribution of governmental powers; congress; the chief executive; the judiciary; police powers; eminent domain; checks and balances; guarantee of republican government; civil rights; political privileges; guarantee in criminal cases; impairment of contractual obligations. Textbook: Hall's Cases on Constitutional Law, American Casebook Series. *(4 hours. Professor Kline.)*

AGENCY.—Nature of the relation; purposes and manner of creation; who may be principal or agent; ratification; delegation of authority; general and special agents; rights and duties of agents; termination, nature, extent, construction, and execution of authority of agents; rights, duties, and liabilities of agents; principal and third persons *inter se;* particular classes of agents. Textbooks: Mechem's Outlines of Agency and Mechem's Cases on Agency. *(2 hours. Professor Moore.)*

EQUITY PLEADING.—Nature and object of pleadings in equity; parties to a suit in equity; proceedings in a suit in equity; bills in equity; disclaimer; demurrers and pleas;

answer and replication; preparation of bills, demurrers, pleas, answers. Textbooks: Fletcher's Equity Pleading and Practice; Rules of the Circuit Court in Chancery in Florida; Rules of the Federal Court; Statutes of Florida. *(3 hours. Professor Cockrell.)*

BRIEF MAKING AND THE USE OF LAW BOOKS.—Where to find the law; how to use statutes and decisions; how to find the law; the trial brief; the brief on appeal and its preparation. Textbook: Cooley's Brief Making and the Use of Law Books. *(1 hour. Professor Crandall.)*

PROPERTY III.—Titles and conveyancing, including acquisition of titles by possession, modes of conveyance at common law, under the statute of uses, and by statutory grant; the execution of deeds; estates created; covenants for titles; estoppel by deed; priorities among titles. Textbook: Aigler's Cases on Property. *(3 hours. Professor Crandall.)*

FLORIDA CONSTITUTIONAL LAW.*—Declaration of rights; departments of government; suffrage and eligibility; census and apportionment; counties and cities; taxation and finance; homestead and exemption; married women's property; education; public institutions; miscellaneous provisions. Textbooks: Constitution, statutes, and judicial decisions of Florida. *(2 hours. Dean Trusler.)*

CODE PLEADING.**—Changes introduced by the codes; forms of action; necessary allegations; the complaint; prayer for relief; answers, including general and special denials; new matter; equitable defenses; counter claims; pleading several defenses; replies and demurrers. Textbook: Pomeroy's Code Remedies. *(2 hours. Professor ————.)*

SECOND SEMESTER

EVIDENCE.—Judicial notice; kinds of evidence; burden of proof; presumptions of law and fact; judge and jury; best evidence rule; hearsay rule and its exceptions; admissions; confessions; exclusions based on public policy and privilege; corroboration; parol evidence rule; witnesses; attendance in court; examination, cross examination, privilege; public documents; records and judicial writings; private writings. Text-

*For students intending to practice in Florida.
**For students not intending to practice in Florida.

book: Greenleaf on Evidence, 16th edition, vol. 1; selected cases. *(4 hours. Professor Cockrell.)*

PRIVATE CORPORATIONS.—Nature; creation and citizenship; defective organization; promotors; powers and liabilities; corporations and the State; dissolution; membership; management; creditors; foreign corporations; practice in forming corporations, preparing by-laws, electing officers, and in conducting corporate business. Textbooks: Clark on Private Corporations, and Wormser's Cases on Corporations. *(4 hours. Professor Moore.)*

LEGAL ETHICS.—Admission of attorneys to practice; taxation; privileges and exemptions; authority; liability to clients and to third parties; compensation; liens; suspension and disbarment; duties to clients, courts, professional brethren, and to society. Textbooks: Attorneys at Law in Ruling Case Law and the Code of Ethics adopted by the American Bar Association. *(1 hour. Dean Trusler.)*

PROPERTY IV.—History of the law of wills and testaments; testamentary capacity and intent; kind of wills and testaments; execution, revocation, republication, revival of wills; descent; probate of wills and the administration of estates. Textbook: Costigan's Cases on Wills. *(3 hours. Professor Crandall.)*

FLORIDA CIVIL PRACTICE.* — Organization of courts; parties; joinder and consolidation of actions; issuance, service, and return of process; appearance; trial; verdict; proceedings after verdict; appellate proceedings; peculiar characteristics of the common law actions; special proceedings including certiorari, mandamus, prohibition, quo warranto, habeas corpus, attachment, garnishment, statutory liens, forcible entry and detainer, landlord and tenant. Textbook: Crandall's Florida Civil Practice. *(3 hours. Professor Cockrell.)*

GENERAL CIVIL PROCEDURE.**—The court; parties; forms of action; the trial; selection of jury and procedure in jury trial; judgment; execution; appeal and error. Textbook: Loyd's Cases on Civil Procedure. *(3 hours. Professor ———.)*

THIRD YEAR

FIRST SEMESTER

INSURANCE.—Theory, history, significance; insurable interest; concealment, representations, warranties; subrogation;

*For students intending to practice in Florida.
**For students not intending to practice in Florida.

waiver and estoppel; assignees, beneficiaries; creditors; fire, life, marine, accident, guarantee, liability insurance. Textbooks: Humble's Law of Insurance and Humble's Cases on Insurance. *(1 hour. Dean Trusler.)*

PUBLIC SERVICE CORPORATIONS.—Nature of public utilities; railroads and other common carriers of goods and passengers; telegraphs and telephones; light and water companies; inns; warehouses; elevators; stockyards; methods of incorporation; public control; rights and obligations at common law and under federal and state statutes. Textbook: Wyman's Cases on Public Service Companies. *(2 hours. Professor Moore.)*

FEDERAL PROCEDURE AND BANKRUPTCY.—System of courts created under the authority of the United States, jurisdiction of the several courts and procedure therein; Federal and state bankruptcy legislation; who may become bankrupt; prerequisites to adjudication; receivers; trustees; provable claims; exemptions; composition; discharge. Textbooks: Hughes on Federal Procedure, and Remington on Bankruptcy, Students' Edition. *(3 hours. Professor Cockrell.)*

PARTNERSHIP.—Creation, nature, characteristics of a partnership; nature of a partner's interest; nature, extent, duration of the partnership liability; powers of partners; rights, duties, remedies of partners *inter se;* rights and remedies of creditors; termination of partnership. Textbook: Burdick on Partnership. *(2 hours. Professor Moore.)*

INTERNATIONAL LAW.—Nature, subjects, and objects of international law; intercourse of states; settlement of international differences; law of war; law of neutrality. Textbook: Hershey's Essentials of International Public Law; selected readings. *(1 hour. Professor Crandall.)*

ADMIRALTY.—Jurisdiction; contracts, torts, crimes; maritime liens, ex contractu, ex delicto, priorities, discharge; bottomry and respondentia obligations; salvage; general average. Textbook: Hughes on Admiralty. *(1 hour. Professor Crandall.)*

JUDGMENTS.—Nature and essentials; kinds; record; vacation; amendment; modification; satisfaction. Textbooks: Rood on Judgments and Rood's Cases on Judgments. *(2 hours. Professor Crandall.)*

Practice Court Room

Gymnasium

TRUSTS.—The Anglo-American system of uses and trusts; creation, transfer, extinguishment of trust interests; priorities between competing equities; construction of trust dispositions; charitable trusts. Textbook: Kenneson's Cases on Trusts. *(2 hours. Professor Kline.)*

PRACTICE COURT.—*(1 hour.)*

SECOND SEMESTER

DAMAGES.—General principles; nominal; compensatory; exemplary; liquidated; direct and consequential; proximate and remote; general and special; measure in contract and tort actions; entire damages in one action; mental suffering; avoidable consequences; value; interest; lateral support; counsel fees and expenses of litigation; injuries to real property and limited interests; death by wrongful act; breaches of warranty. Textbook: Rogers' Law of Damages; selected cases. *(2 hours. Dean Trusler.)*

MUNICIPAL CORPORATIONS.—Creation of cities and towns; powers of a municipality, including public powers, power of taxation, power over streets and alleys, etc.; obligations and liabilities of municipal corporations; powers and liabilities of officers. Textbook: Cooley on Municipal Corporations. *(2 hours. Professor Cockrell.)*

SURETYSHIP.—Nature of the contract; statute of frauds; surety's defenses against the creditor; surety's rights, subrogation, indemnity, contribution, exoneration; creditor's rights to surety's securities. Textbook: Spencer on Suretyship. *(2 hours. Professor Kline.)*

NEGOTIABLE INSTRUMENTS.—Law merchant; definitions and general doctrines; contract of the maker, acceptor, certifier, drawer, indorser, vendor, accommodater, assurer; proceedings before and after dishonor of negotiable instruments; absolute defenses; equities; payments; conflict of laws. Textbook: Biglow on Bills, Notes and Cheques. *(2 hours. Professor Kline.)*

CONFLICT OF LAWS.—Jurisdiction; sources of law and comity; territorial jurisdiction; jurisdiction in rem and in personam; remedies, rights of action, procedure; creation of rights; property rights; personal rights; inheritance; obligations ex delicto and ex contractu; recognition and enforcement of rights; personal relations; property; inheritance; admin-

istration of estates; judgments and obligations. Textbook: Minor on the Conflict of Laws. *(2 hours. Professor Moore.)*

PROPERTY V.—Conditional estates; licenses and waivers; reversions and remainders; rule in Shelley's Case; future uses; future interests; executory devises and bequests; vesting of legacies; cross limitations; gifts; failure of issue; determination of classes; powers; rule against perpetuities; restraints on alienation. Textbook: Kales' Cases on Future Interests. *(3 hours. Professor Crandall.)*

JURISPRUDENCE.—Nature, meaning, subject matter of law; justice; divisions of law; persons; relation of persons to things; claims of persons on persons; legal authorities and their use; customs; law reports; case-law; ancient and modern statutes. Textbook: Pollock on Jurisprudence. *(1 hour. Professor Kline.)*

PRACTICE COURT.—*(1 hour.)*

Those who desire further information concerning the College may address letters of inquiry to Harry R. Trusler, Dean of the College of Law, Gainesville, Florida.

BRING THIS BULLETIN WITH YOU, AS IT CONTAINS YOUR DAILY SCHEDULE. YOU WILL NEED IT.

University Record

Vol. XV AUGUST, 1920 No. 2

Published quarterly by the University of Florida
Gainesville, Florida

University of Florida

GAINESVILLE, FLORIDA

University Summer School

(Co-Educational)

Announcement

June 14-August 6, 1920

Entered September 6, 1906, at the Postoffice at Gainesville, Florida, as second-class mail matter, under Act of Congress, July 16, 1894

SUMMER SCHOOL CALENDAR

SATURDAY, JUNE 12—Dormitories open. Supper served.

MONDAY, JUNE 14—Registration.

MONDAY, JUNE 14—Opening Exercises in Chapel. 9 A.M.

TUESDAY, JUNE 15—Classes begin.

SATURDAY, AUG. 7—Dormitories close for Summer.

MONDAY, AUG. 9—Examination for Primary, Special and State Certificates.

Note—Members of Faculty not engaged in the registration of pupils, will be in their classrooms to enroll students and to make assignments of lessons.

University of Florida

GAINESVILLE, FLORIDA

University Summer School

(Co-Educational)

Announcement

June 14-August 6, 1920

SUMMER SCHOOL

SUMMER SCHOOL BOARD
STATE SUPERINTENDENT, W. N. SHEATS, A.M., LL.D.
PRESIDENT A. A. MURPHREE, A.M., LL.D.
PRESIDENT EDWARD CONRADI, A.M., PH.D.

FACULTY AND OFFICERS

A. A. MURPHREE, LL.D., *President*
Director of Summer School

HARVEY W. COX, PH.D., *Dean*
Educational Psychology

J. N. ANDERSON, PH.D.,
College Latin and French

E. C. BECK, A.M.,
English Language and Literature

A. P. BLACK, A.M.,
Chemistry

F. W. BUCHHOLZ, A.B.,
Latin

MISS MARGARET C. BURNS
Primary Methods

J. M. CHAPMAN, D.O.,
Public Speaking

P. W. CORR, A.B.,
Geography

C. L. CROW, PH.D.,
Spanish Language

P. W. FATTIG, M.S.,
Economic Biology

W. L. FLOYD, M.S.,
Science and Agriculture

JOSEPH R. FULK, PH.D.,
Education

W. B. HATHAWAY, A.M.,
Rhetoric

P. H. HENSLEY, A.M.,
English and American Literature

R. H. HIXSON, A.B.,
Educational Hygiene

C. F. HODGE, PH.D.,
Civic Biology and Nature Study

C. E. JACKSON, A.M.,
Manual Training

J. M. LEAKE, PH.D.,
College History and Economics

G. M. LYNCH, A.B.,
Mathematics

H. G. METCALFE
Mathematics

J. W. NORMAN, PH.D.,
Education

MRS. J. W. RUMLEY
Y. W. C. A. Secretary and Physical Director for Women

T. M. SIMPSON, PH.D.,
College Mathematics

MISS SHELTON SOUTER
History

G. C. TILLMAN, M.D.,
First Aid

W. M. TYLER, B.C.S.,
Commercial Subjects and Penmanship

F. S. WETZEL, B.S.,
Science

GEO. E. WHITE, A.B.,
Y. M. C. A. Secretary and Physical Director for Men

MISS SADIE LINDENMEYER
Music and Art

MISS RUTH WHITE, A.B.,
English Grammar and Composition

B. M. WILLIAMS, A.M.,
Educational Methods

S. L. WOODWARD, A.B.,
History and Civics

K. H. GRAHAM, *Auditor*
MRS. W. W. GAY, *Dean of Women*
MISS CORA MILTIMORE, *Librarian*
MRS. S. J. SWANSON, *In Charge of Dining Hall*
MRS. MARGARET PEELER, *Matron*

LOCATION OF THE UNIVERSITY

Gainesville, the seat of the University, a town of 10,000 inhabitants, possesses numerous advantages. It is centrally located and easy of access, being reached by the leading railroads of the State. It has well paved, lighted and shaded streets, an exceptional pure water supply and a good sewerage system. The citizens are energetic, progressive and hospitable. The moral atmosphere is wholesome, and for many years the sale of intoxicants has been prohibited by law. All the leading denominations have attractive places of worship.

GROUNDS AND BUILDINGS

The University occupies a tract of six hundred and thirteen acres, situated in the western extremity of Gainesville. Ninety acres of this tract are devoted to the campus, drill-ground and athletic fields; one hundred and seventeen acres are utilized for the farm of the College of Agriculture; the remainder is used by the Agricultural Experiment Station.

Twelve buildings have already been erected. These are, in the order of construction: Two dormitories, known as "Buckman Hall" and "Thomas Hall"; the Mechanic Arts Shop, Science Hall, the Agricultural Experiment Station Building, Engineering Hall, the Gymnasium, the Agricultural College Building, the dining hall or "University Commons," Language Hall, the "George Peabody Hall," the home of the Teachers' College and Normal School, and the College of Law. They are lighted with electricity, supplied with city water and furnished with modern improvements and equipments.

EXPENSES

Registration Fee	$ 2.00
Boarding and Lodging in Dormitory, per week, *in advance*	5.25
In advance for term	40.00
Board without Lodging	4.25
Meals in Dining Hall	.35
Laboratory Fee in Chemistry	2.50

Students taking manual training will have to pay for the

material they use. This will not amount to more than 75 cents.

ROOMS.—Dormitory rooms are supplied with two good iron bedsteads and mattresses, chiffonier or bureau, a table, washstand and chairs. All students are required to provide for themselves a pillow, bed linen, towels and such other things as they may want for their own special convenience.

Two additional dormitories have been built which makes it possible to accommodate some of the men on the campus if they so desire.

Good rooms can be obtained adjacent to the campus at $1.25 to $1.50 per week. A number of rooms in the city can be obtained at $1.00 per week. Men desiring to have their rooms reserved in advance should write at once.

INFIRMARY.—The University will maintain a well equipped infirmary and a professional nurse for those who may be ill during the Summer School.

PEABODY HALL.—Peabody Hall, the home of the Teachers' College, is a magnificent three-story brick and stone structure. It is modern in every respect as to equipment and arrangements. It contains all the lecture rooms, society halls, reading rooms, laboratories and libraries that a modern college of this kind needs. With such facilities at its command, nothing can hinder the college from realizing its aims.

LIBRARY.—The general library of the University contains about 18,000 volumes of well-selected books to which the Summer School students have free access. The Pedagogical library will be of special interest to them, for it contains many books on educational theory, general and special methods, history of education, psychology and philosophy. In the reading room are more than a hundred of the best general and technical periodicals. Here also are received the leading newspapers of the State.

PSYCHOLOGICAL LABORATORY.—The new Psychological Laboratory is placed in the Peabody Hall. This will give teachers a wonderful opportunity to investigate at first hand the great laws of the mind. To know these through experiment will give the teachers a far greater power to direct properly their development of the child. The laboratory

will contain all of the appliances and apparatus necessary for thorough and efficient work in experimental psychology.

EDUCATIONAL RESEARCH ROOM. — Room 32, Peabody Hall, is set apart for special and graduate students in Education. This room contains exhibits of many lines of school work; reports and publications of the U. S. Bureau of Education; samples of school texts; Courses of Study; Reports of Superintendents; Education catalogues of colleges and universities; samples of records and reports, and state school laws. The room is especially rich in material, method and practical operations of mental and educational measurements. Graduate students working on theses will find this room especially helpful and convenient. The equipment is at their service, and individual tables and chairs will be provided.

TEACHERS' EMPLOYMENT BUREAU.—It is the purpose of this bureau to keep records of all teachers who have attended the University who are fitted by their training for the profession of teaching and to recommend them to school boards who are in need of efficient principals and teachers. Already the demand for our graduates and students is greater than we can supply. County superintendents and school boards are requested to correspond with us when in need of well-trained and efficient teachers.

After the first day of Summer School, chapel will be held Monday, Wednesday, Friday at twelve o'clock.

FOLLOWING COURSES FOR COUNTY, STATE AND SPECIAL CERTIFICATES

The subjects in Group A fulfill requirements for all county certificates.

The courses of study in Group B lead to State and Special Certificates; and may be taken for high school credit or for normal credit leading to a Normal Diploma.

EXPLANATION OF ABBREVIATIONS

A. H., Agricultural Hall; S. H., Science Hall; E. H., Engineering Hall; P. H., Peabody Hall; L. H., Language Hall. Figures denote rooms.

AGRICULTURE

Group A

ELEMENTARY AGRICULTURE.—A general course in agriculture. This will introduce the student to the study of soil, plants, common diseases of plants, insects, farm crops, domestic animals and such like. Methods of teaching agriculture in the rural schools will be stressed. M. T. 10:05 A. H. 12. Professor Floyd.

ENGLISH

Group A

ENGLISH COMPOSITION.—Two sections:

Section 1. M. W. F. 10:05 P. H. 28. Professor Hathaway.

Section 2. T. Th. 3:05 P. H. 17. Miss White.

ENGLISH GRAMMAR.—Three sections:

Section 1. M. W. F. 3:05 P. H. 17. Miss White.

Section 2. T. Th. 11:05 P. H. 28. Professor Hathaway.

Section 3. M. W. F. 9:05 P. H. 17. Miss White.

ORTHOGRAPHY.—The spelling of common words will be stressed. Correct spelling in all forms of written work demanded. How best to teach spelling. M. W. F. 8:05 P. H. 28. Professor Hathaway.

READING. — Practice in reading required each week. Teachers are so drilled in reading that they will be able to read well to their classes. The methods and principles of teaching reading are given. T. Th. 9:05 P. H. 17. Miss White.

ENGLISH

Group B

AMERICAN LITERATURE.—Study of American Literature as outlined in Metcalf's "American Literature." M. W. Th. F. 8:05 P. H. 17. Miss White.

ENGLISH LITERATURE.—The history of English Literature as outlined by Metcalf's English Literature will be given. T. W. Th. F. 2:05 L. H. 26. Professor Hensley.

RHETORIC.—A general course in composition and rhetoric. M. T. Th. F. 3:05 P. H. 28. Professor Hathaway.

GEOGRAPHY

Group A

POLITICAL GEOGRAPHY.—Special attention will be given to Florida and its relation to other states. A thoro review of the geography of the United States and the world. Instructions will be given in the use of text-books, maps, globes, industrial products, etc.

Section 1. M. W. F. 8:05 S. H. 1. Professor Corr.

Section 2. M. T. Th. 2:05 S. H. 1. Professor Corr.

PHYSICAL GEOGRAPHY.—The main features of the ordinary text-book in physical geography will be studied. Along with this stress will be placed upon the effects the physical features have on man—his commercial and social life. This will be correlated with agriculture. M. W. Th. F. 4:05 S. H. 1. Professor Corr.

HISTORY AND CIVIL GOVERNMENT

Group A

CIVIL GOVERNMENT.—Special attention will be given to local, town and city, and county governments. That practical information that every intelligent citizen should have is stressed. How to teach the subject. M. T. Th. 3:05 L. H. 25. Professor Woodward.

FLORIDA HISTORY.—Adopted book will be covered. W. F. 3:05 L. H. 25. Professor Woodward.

U. S. HISTORY.—Three sections, each covering thoro review of State-adopted text-book.

Section 1. M. T. Th. F. 4:05 L. H. 25. Professor Woodward.

Section 2. T. W. Th. F. 11:05 L. H. 25. Miss Souter.

Section 3. M. W. Th. F. 8:05 L. H. 25. Miss Souter.

Group B

HISTORY.—Ancient: M. T. Th. F. 10:05 L. H. 25. Miss Souter. Medieval and Modern: M. T. W. F. 9:05 L. H. 25. Miss Souter.

LATIN

Group B

FIRST YEAR LATIN.—Section 1. Beginners, M. T. W. Th. 9:05 P. H. 28. Professor Hathaway. Section 2. Review, M. T. W. Th. 4:05 P. H. 21. Professor Buchholz.

PEABODY HALL, Where Summer School is Conducted

Summer Normal School, 1918

CAESAR.—In this course three books will be thoroly studied. Composition. M. T. W. Th. 3:05 P. H. 21. Professor Buchholz.

CICERO.—Three or four orations of Cicero with prose composition. T. W. Th. F. 9:05 P. H. 21. Professor Buchholz.

VIRGIL.—Three books of Virgil are read and, in addition, prose composition will be given. M. W. Th. F. 8:05 P. H. 21. Professor Buchholz.

MATHEMATICS

Group A

BEGINNERS' ALGEBRA.—Elementary course covering the fundamental operations, simple and simultaneous equations, factoring and fractions.

Section 1. M. T. Th. F. 3:05 P. H. 20. Professor Lynch.

Section 2. M. T. W. F. 9:05 P. H. 20. Professor Metcalfe.

ADVANCED ALGEBRA. — Involution, evolution, quadratic equations, progressions, ratio and proportion.

Section 1. M. T. W. F. 10:05 P. H. 20. Professor Metcalfe.

Section 2. M. T. W. F. 4:05 P. H. 20. Professor Lynch.

ARITHMETIC.—A thoro review of arithmetic is made, that the student may view it from both the teacher's and child's point of view. Common and decimal fractions, denominate numbers, percentage, and all other subjects covered by the text-books adopted by the State. Principles and methods of teaching arithmetic are thoroly gone over. Four sections.

Section 1. M. T. W. F. 11:05 S. H. 1. Professor Corr.

Section 2. M. T. W. Th. 8:05 L. H. 10. Professor Woodward.

Section 3. T. W. Th. F. 2:05 P. H. 20. Professor Metcalfe.

Section 4. M. W. F. 10:05 P. H. 21. Professor Williams.

In Section 4 special emphasis will be given to the modern methods of teaching arithmetic.

MATHEMATICS

Group B

BEGINNERS' PLANE GEOMETRY.—M. T. W. F. 8:05 P. H. 20. Professor Lynch.

PLANE GEOMETRY.—Review course. M. T. W. F. 11:05 P. H. 20. Professor Lynch.

SOLID GEOMETRY.—T. W. Th. F. 11:05 P. H. 21. Professor Metcalfe.

PLANE TRIGONOMETRY.—M. T. Th. F. 3:05 L. H. 23. Professor Simpson.

PROFESSIONAL SUBJECTS

Group A

PEDAGOGY.—School management, general and special methods of teaching, elementary principles of child nature, school hygiene and sanitation, personality of teacher, relation of school and community, and other practical pedagogical questions. M. T. W. F. 11:05 P. H. 25. Professor Williams.

Group B

PSYCHOLOGY.—A beginners' course in psychology with applications of teaching. M. T. W. Th. 9:05 P. H. 25. Professor Cox.

Either one of the above professional subjects, or any four or five hour subject, under Education or in Primary Methods, will satisfy the professional requirement necessary for extension of certificate.

SCIENCE

Group A

HYGIENE.—Special efforts to impress the teacher with the importance of hygiene and sanitation. How to keep well and physically efficient is the special aim of this course. M. W. F. 9:05 S. H. 1. Professor Corr.

Group B

BOTANY.—In classroom and laboratory the structure, morphology, reproduction and classification will be studied. After students have been prepared for them, field trips will be taken, when representative types of important families

will be collected and identified. T. W. Th. F. 3:05 P. H. 1. Professor Wetzel.

CHEMISTRY.—Elementary principles of chemistry; text-book and laboratory work. Carefully kept note-books required. M. T. W. Th. F. 9:05 S. H. Professor Black. Laboratory M. W. or T. Th. 2:05-4:00.

PHYSICS.—A general course such as is usually given in standard secondary schools—lectures, recitations, demonstrations, and a limited amount of individual laboratory work. M. T. W. Th. 10:05. Laboratory W. F. 4:05-6:00 P. H. 1. Professor Wetzel.

GENERAL SCIENCE.—A course of methods in general science designed especially to meet the needs of high school teachers. T. Th. 9:05 P. H. 1. Professor Wetzel.

ZOOLOGY. — In connection with the text-book study, typical specimens illustrating the different groups, will be dissected and studied in the laboratory, to obtain as comprehensive an idea of their structure and physiology as possible. M. T. W. Th. 2:05 P. H. 1. Professor Wetzel.

PRIMARY AND NORMAL COURSES

In addition to the normal courses offered as courses leading to state and special certificates, the following primary and normal courses are offered. The primary course aims to prepare teachers for the professional branches in the state primary certificate, and may be taken as requirement for professional work in extension of certificates.

PRIMARY WORK

Miss Margaret Burns

NEWER TYPE OF PRIMARY SCHOOL.—Course will discuss some recent departures from the traditional and will consider causes for these changes. The course will include organization of the primary school curriculum, and a discussion of the relationship between the kindergarten and primary school. It is planned to meet the needs of teachers of the first four grades. Daily 8:05 E. H. 10.

TRADITIONAL SUBJECTS OF THE PRIMARY SCHOOL.—Aims and Methods—the rapid transformation in methods of

teaching the traditional studies will be considered. Type lessons illustrating the drill lesson, the application of the drill lesson and the lesson for appreciation will be given. Daily 9:05 E. H. 10.

ELEMENTARY PEDAGOGY. — Organization and management of primary grades; elementary principles of child nature; plays and games; lesson planning; methods of teaching, and other practical problems that should be understood by the primary teacher. Daily 3:05 E. H. 10.

We are very glad to announce to the primary teachers of the State that we have succeeded in securing Miss Margaret Burns to take charge of the Primary Work. Miss Burns received her training in the State Normal School at Oswego, New York, and Cornell University. She was primary critic teacher for three years at California, Pa., and for eight years was critic and demonstration teacher in the State Normal School at Valley City, North Dakota. She is now supervisor of the primary work in the Jacksonville schools.

MUSIC

Miss Lindenmeyer

MUSIC METHODS, COURSE 1.—It is the object of this course to point out the true place and purpose of public school music, and to consider the various good methods of teaching music to children in the Primary Grades. Daily 2:05 Gymnasium.

MUSIC METHODS, COURSE 2.—A continuation of course 1. Material is examined for the Grammar Grades and High School. (Hours to be arranged) Gymnasium.

DRAWING AND INDUSTRIAL ARTS

Miss Lindenmeyer

PUBLIC SCHOOL ART AND METHODS, GRADES I-IV

COURSE 1.—This course includes: Elementary water color, crayon and pencil from plants, flowers, vegetables and fruit; simple design and its application to some problem; elementary color theory; paper cutting and construction; action lines; pose drawing; lettering; arrangement and poster making. Work for first four grades outlined. Model lessons given. Cost and selection of materials discussed. M. W. F. 10:05-11:00 E. H. 12.

PUBLIC SCHOOL ART AND METHODS, GRADES V-VIII

COURSE 2.—This course includes: Water color, pastello, tempera and pencil from plants, flowers and still life objects, studied with reference to light and shade; color theory; simple working drawings; lettering; poster making; suitability of dress for different occasions and types of people; application of the principles of Art to home decoration; bookmaking; appreciation of direction, balance, rhythm, proportion and values; study of design and its application to some practical problem; paper cutting; work outlined for the school year; cost and selection of materials discussed. Perspective. T. Th. 10:05-12:00 E. H. 12.

NOTE.—Other courses in Drawing and Industrial Art may be given if the demand is sufficient.

MANUAL TRAINING

Professor Jackson

This work is planned to include shop work and mechanical drawing courses suitable to the first year of High School.

SHOP WORK.—The shop course will consist of bench work, machine work and turning. At the bench various joints will be laid out and constructed and small pieces of furniture made. This will give practice in using hand tools, glueing, staining, varnishing, etc. As much practice as possible will be given on the different machines, and all work will be done from drawings. Shops will be open to accommodate classes.

MECHANICAL DRAWING. — In drawing, sketching and lettering will be practiced all through the session, and, if possible, considerable work will be given in mechanical drawing, consisting largely of accurate working drawings in both orthographs and isometric projection and practice in tracing and printing. Hours to be arranged. E. H. 2.

FOLLOWING COURSES FOR COLLEGE AND GRADUATE STUDENTS

The following courses will be offered for those who are prepared to take them. Four and one-half year hours, or eighteen hours per week, will be the maximum of work allowed to college students without special permission. While a number of courses are outlined which the profes-

sors are prepared to give, yet in the nature of the case only a limited number can be given. The number and kind of course will depend upon the demand.

COURSE OF STUDY FOR NORMAL DIPLOMA AND COLLEGE DEGREES

ADMISSION. — Graduates of Standard Junior High Schools, those who have finished the tenth grade of a Senior High School, and teachers who hold a First Grade County Certificate, are admitted to the first year of the Four-Year Normal Course. Graduates of Standard Senior High Schools are admitted to the Freshman Year of the Collegiate Course.

SUMMER SCHOOL CREDIT.—One hour in the Summer School is equivalent to one fourth year hour as given in the following course of study.

DEGREES.—Courses are offered leading to the degree of Bachelor of Arts in Education, and Bachelor of Science in Education.

ELECTIVES.—In order that graduates may be well prepared to teach two or three high school subjects, much freedom in the choice of electives is permitted. It is assumed that the student will elect the subjects which he hopes to teach and will take advantage of his freedom of choice to become especially proficient in these. A list of Elective Groups is given below. For the A.B. degree the major elective work must be chosen in Groups II and III, or Group II or III; for the B.S. degree, from Group IV. The choice of electives must be approved by the Dean, and no more than the required number shall be chosen without his consent.

Group Subjects

I.	II.	III.	IV.
Military Science I and II.	French, Greek, Latin, Rhetoric and English Language, Spanish,	Bible, Economics, Education, English Literature, History, Philosophy, Political Science, Psychology, Sociology,	Agriculture, Astronomy, Bacteriology, Biology, Botany, Chemistry, Drawing, Descriptive Geometry, Geology, Mathematics, Mechanics, Physics, Zoology. Physiology,

CURRICULUM, FOUR-YEAR NORMAL COURSE

Leading to Normal School Diploma

First Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
English NI	Rhetoric, Compositon and classics	5
History NI	Medieval and Modern History	5
Mathematics NI	Plane Geometry	5
	Take 5 hours of the following:	
Agriculture NI	Elements of Agronomy and Horticulture	3
Latin NI	Beginner's Course	5
Mechanic Arts NI*a* and NII*b*	Wood Work	3
Science NI	Biology	5
Science NII	Chemistry	5
Spanish NI	Beginner's Course	5
Required		20

Second Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
English NII	American and English Literature and Composition	5
History NII	American History and Civics	5
	Take 10 hours of the following:	
Agriculture NII	Elements of Animal Husbandry and Agricultural Engineering	3
Latin NII	Cæsar (4 books) and Composition	5
Mathematics NII	Plane Trigonometry and Solid Geometry	5
Science NIII	Physics	5
Spanish NII	Second Year Course	5
Required		20

Third Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
Education I*a*	Psychology	3
Education I*b*	Methods	
English I	Rhetoric and Composition	3
Agronomy I	General Agriculture	9
Biology		
Chemistry	General Chemistry	
Foreign Language	French, Latin, Spanish	
History		
Mathematics		
Physics		
Music and Art (Not more than 3 hours)		
Physical Education I		1
		16

Fourth Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
Education IIA	Primary Methods	3
Education IIB	Reviews and Methods in Grammar School Subjects	
Education IIC	Methods of Teaching High School Subjects	3
Education IIIA	Plays and Games	
Education IIIB	Hygiene and Recreation	
Education IIIC	Public School Administration	
Education VI*a*	Child Study	3
Education VI*b*	Practice Teaching	
*Group II or III		3
*Group IV		3
Physical Education II		1
		16

CURRICULUM

Leading to the degree of Bachelor of Arts or Bachelor of Science in Education

The Freshman and Sophomore years are the same as the Third and Fourth years of the course leading to a Normal Diploma, save that 6 hours of foreign language is required and Education VI may be deferred to the Senior year.

Junior Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
Education IV*a*	History of Education	3
Education IV*b*	Secondary Education	
Philosophy I	General Psychology	3
Electives		9
		15

Senior Year

NAME OF COURSE	NATURE OF WORK	HOURS PER WEEK
Education V*a*	Democracy and Education	3
Education V*b*	Democracy, The Curriculum and Educational Method	
Education VI*a*	Child Study	3
Education VI*b*	Practice Teaching	
Education VII	Educational Problems	1
Electives		9
		16

AGRICULTURE

Professor Floyd

ELEMENTS OF AGRONOMY.—The origin, formation, and classification of soils; general methods of soil management, and the adaptation of soils to the requirements of plants. M. T. W. 11:05 A. H. 12, Th. 4:05-6:00 Field.

PLANT PROPAGATION.—Study and practice in propagation by means of division cutting, layering, budding and grafting, seed selection, storing and testing, and the fundamental physiological processes. Exercises with common fruits, flowers, and shrubs will be given. T. Th. F. 8:05 A. H. 12, W. 4:05-6:00 Field.

VEGETABLE GROWING.—Vegetables adapted to Florida, the seasons in which they are grown, cultural methods, fertilizing, irrigating, troublesome insects and diseases, packing and marketing. W. Th. F. 3:05 A. H. 12 M. 4:05-6:00 Field.

CITRUS CULTURE.—History and botany of citrus; soils suitable for groves, their preparation, planting, cultivation, fertilization, selection of varieties, and the use of cover crops. M . Th. 9:05 A. H. 12 T. 4:05-6:00 Orchard.

BIOLOGY

Dr. Hodge
Professor Fattig

NATURE STUDY IN THE GRAMMAR GRADES.—Text: "Nature Study and Life" (Ginn & Co.) By Hodge. Daily 8:05 S. H. 3. Professor Hodge.

CIVIC BIOLOGY AND PROBLEMS OF THE HIGH SCHOOL COURSE.—Text: "Civic Biology" (Ginn & Co.) By Hodge and Dawson. Daily 10:05 S. H. 3. Professor Hodge.

Classroom instruction in both courses will be supplemented by such excursions, for bird, insect, plant and garden studies, and by such special outdoor problem work as it may be possible to arrange for.

PERSONAL AND COMMUNITY HYGIENE.—This course will be devoted to problems of modern health conservation, individual and social. It will be based in the main upon our national, state and city ordinances and reports, supple-

mented by the standard text on personal hygiene. M. W. F. 11:05 S. H. 3. Professor Hodge.

ECONOMIC BIOLOGY.—This course will deal with plants, insects, birds and animals of economic importance. A study will be made of the common plant diseases, their identification and methods of control.

The major part of the course will deal with our injurious and beneficial insects. Time will be given to the methods of preserving, mounting and rearing insects for class room demonstrations. M. W. F. 4:00 to 5:00. Laboratory and Field Work, hours to be arranged. P. H. 31. Professor Fattig.

CHEMISTRY

Professor Black

GENERAL CHEMISTRY.—A course designed for those who wish to prepare for science teaching in the High Schools. This course can be taken by those who have never taken chemistry before or by those who have had a course and wish to review it. Daily 9:05, Laboratory M. T. W. Th. 2:05-4:00 S. H. 2.

*QUALITATIVE ANALYSIS.—A laboratory course in this subject offered to those who have had general chemistry. Laboratory M. T. W. Th. 2:05-4:00 S. H.

GRAVIMETRIC ANALYSIS.—A laboratory course offered to those who have had qualitative analysis. Laboratory afternoons, S. H. 2:05-5:00, days to be arranged. Nine hours per week.

VOLUMETRIC ANALYSIS.—A laboratory course offered to those who have had gravimetric analysis. Laboratory afternoons, S. H. 2:00-5:00, days to be arranged. Nine hours per week.

CHEMICAL TECHNOLOGY.—A laboratory course offered to those advanced students of chemistry who contemplate commercial laboratory work, or who wish to fit themselves for the technical examination of materials in a chosen field. See instructor.

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*A half course may be taken in qualitative analysis if desired.

EDUCATION

Professor Fulk
Professor Norman
Professor Williams

TEACHING OF GEOMETRY.—A study of the principles that underlie the teaching of Geometry, and designed for teachers of this subject. Teachers are requested to bring Wentworth & Smith's Geometry with them as the main part of the work will be based upon this text. M. T. W. F. 9:05. P. H. 23. Professor Norman.

TEACHING OF HISTORY.—This course is planned for teachers of History in grades 7 and 8, and in high schools. It attempts to give an insight into the meaning and uses of history. The development of courses, the present status of history as a school subject, the evaluation of texts, materials and methods of teaching, and the measurement of the achievements of pupils, are topics of the course. The work will be based chiefly on American History. Those taking the course should provide themselves with the state adopted texts in American History. May be taken for graduate credit. M. T. Th. F. 11:05 P. H. 23. Professor Fulk.

TEACHING GRAMMAR GRADE ENGLISH.—Methods of teaching English in grammar grades will be stressed in this course. Some time will be given to a discussion of the best English productions for these grades. T. Th. F. 2:05 P. H. 21. Professor Williams.

METHODS OF TEACHING THE ELEMENTARY BRANCHES.—In this course emphasis will be placed upon the proper presentation of grammar school subjects. M. T. W. Th. F. 3:05 P. H. 25. Professor Williams.

CHILD STUDY.—The aim of this course is to give the student an insight into the nature, growth and development of the child from birth to adolescence, with special reference to the meaning of these processes to the teacher. Emphasis given to the effect of child study on the practices of elementary and secondary education. Daily, 9:05. Peabody Hall 23. Professor Fulk.

THE MODERN HIGH SCHOOL.—Recent purposes and plans designed for the improvement of the high school, together with the high school curriculum and teaching problems,

will be stressed in this course. Daily 10:05. P. H. 23. Professor Norman.

SCHOOL ADMINISTRATION.—A study of the organization and the administration of public education in the United States with special reference to city and village schools. The course is planned primarily for principals and teachers of these schools. The work will be based chiefly on recent educational surveys. May be taken for graduate credit. Daily 8:05, P. H. 23. Professor Fulk.

EDUCATION AND DEMOCRACY.—A course intended to outline the principles that should be characteristic of an educational system in a democracy. This course is equivalent to the first half of the course in the Philosophy of Education as described in the University Catalogue for 1919-20. Daily 11:05, P. H. 23. Professor Norman.

Any course or courses in education will satisfy the professional requirement for extension, providing they amount to four or more hours per week.

ENGLISH

Professor Beck
Professor Hensley

ENGLISH Ia.—Advanced College Rhetoric—Designed to train students in methods of clear and forceful expression. Instruction is carried on simultaneously in formal rhetoric, in rhetorical analysis, and in theme writing, the constant correlation of the three as methods of approach to the desired goal being kept in view. In addition a reading course is assigned each student. Daily 3:05. L. H. 26. Professor Hensley.

ENGLISH Ib.—Advanced College Rhetoric—This is the work covered during the second semester of Freshman English. It is a continuation of English Ia. The chapters on Invention in Genung's "Working Principles of Rhetoric" will be studied. A minimum of ten compositions is required. Daily 10:05. L. H. 26. Professor Hensley.

THE NOVEL.—Primarily a reading course. There will be some critical study, however, and some discussion of Howell's "Criticism and Fiction" and Worsfold's "Principles of Criticism." Written exercises will be required dur-

ing the study of Austen's "Pride and Prejudice," Meridith's "Ordeal of Richard Feverel," and Hardy's "Return of the Native." Sinclair's "The Divine Fire," Sedgwick's "A Fountain Sealed," or Conrad's "The Arrow of Gold" will be used to supplement the standard works. Three hours attendance, three semester hours credit. On request. See instructor before registering for the course. M. W. F. 8:05. L. H. 26. Professor Beck.

BROWNING.—An intensive study of "Luria" will constitute the major portion of the work. "My Last Duchess" and "Andrea del Sarto" will serve as an introduction to Browning's dramatic monologues. "A Blot on the 'Scutcheon" will be read. Daily written exercises. Advanced students only. Graduate credit. Tu. Th. S. 8:05. L. H. 26. Professor Beck.

TEACHING OF ENGLISH.—A course for English teachers in high schools. Late methods, concrete laboratory material, modern subject matter, plans, dramatization, high school publications, business English, high school classics, and round table on any problems the teachers wish to discuss. For the past three summers this course has been a sort of seminar for teachers of English in high schools. Advanced students. Daily 9:05. L. H. 26. Professor Beck.

THE SHORT-STORY.—A study of the technique and substance of American, French, Russian, Scandinavian, and English short stories. Some attention will be paid to the magazine story of the day. This course is planned to be extensive. There will be some practice, however. Advanced students. M. W. F. 11:05. L. H. 26. Professor Beck.

MODERN POETRY.—A course in present-day poems and present-day poets. The late poems of Kipling, Tagore, Noyes, Bridges, Cawein, Hardy, Foss, Hagedorn, Galsworthy, Kilmer, Letts, La Gallienne, Amy Lowell, Ella Wheeler Wilcox, MacKaye, Markham, Masefield, Riley, E. A. Robinson, Russell, Service, Tynan, van Dyke, Yeats, and others will be discussed. Criticism and discussion of poetic forms. Some modern drama may be included, as, Wilde's "Lady Windemere's Fan." All students. T. Th. S. 11:05 L. H. 26. Professor Beck.

HIGH SCHOOL ENTERTAINMENTS.—This is a non-credit course for high school teachers interested in entertainment features. There will be one round table each week conducted for and by the students, and practical application of the material discussed in round table. Farces, pantomimes, stunts, burlesques, adaptations. See instructor before deciding to take the course. Hours to be arranged. L. H. 26. Professor Beck.

FRENCH

Professor Anderson
Professor Crow

FRENCH Aa. — Elementary French, first semester's course; pronunciation, grammar, prose composition, reader, oral practice. Daily 10:05 L. H. 9. Fraser & Squair's Shorter French Course; Reader.

FRENCH Ab.—Elementary French, second semester's course; continuation of French Aa; grammar, prose composition, reader, oral practice. Daily 11:05 L. H. 12. Fraser & Squair's Shorter French Course; La Belle France. Prerequisite: French Aa or equivalent.

FRENCH Ia. — Second year French, first semester's course; grammar, prose composition, reader. Daily 10:05 L. H. 12. Prerequisite: French A or equivalent.

HISTORY AND GOVERNMENT

Professor Leake

MODERN EUROPEAN HISTORY.—This course covers the period from 1763, the close of the Seven Years' War, to the outbreak of the late World War in 1914. A thorough study will be made of the Ancient Regime and of the causes of the French Revolution. Especial emphasis is laid on the French Revolutionary and Napoleonic periods and the determinations of the Congress of Vienna come in for a complete analysis. The making of Germany and Italy, the formation of the Triple Alliance and the Triple Entente, the Balkan question, the Partition of Africa, the Far-Eastern questions, and the historical background of the World War will receive special attention. In fact, the aim of this course will be to

furnish the student with a fairly comprehensive knowledge of present-day world politics. Daily 9:05 L. H. 11.

AMERICAN FORIEGN RELATIONS.—This course of advanced American History emphasizes the part of the United States in international relations. It will aim to set before the student in a clear and comprehensive way the evolution of our foreign policy and our attitude as a people toward world affairs. Our attitude toward the various European wars, toward European and world questions, toward international movements, and toward African and Asiatic questions will be carefully traced. This course will be especially helpful to teachers of American History. Daily 10:05 L. H. 11.

AMERICAN GOVERNMENT AND POLITICS.—A thorough analysis of the institutions and political practices of the United States, together with a brief examination of the fundamental features of our state and local governments, will constitute the work of this course. Emphasis will be laid on constitutional questions and on present-day political problems. This course will be of help to teachers of Civics. Daily 11:05 L. H. 11.

FIRST AID AND EDUCATIONAL HYGIENE

Dr. Tillman
Professor Hixson

FIRST AID. — One great lesson the World War has brought us is the value of First Aid in preventing infection, blood poison and other serious complications which often result from minor accidents when left for some time without medical attention. It is the purpose of this course to give the teachers instruction in all branches of First Aid work. Dr. Tillman saw active service in the war as a medical officer and is pre-eminently qualified to give this course. T. Th. 12:05 P. H. 17. Dr. Tillman.

EDUCATIONAL HYGIENE.—This course is intended to familiarize teachers with the resources of their communities for developing not only a knowledge of the essentials of health but developing habits of healthful living on the part of school children. The Modern Health Crusade and its application to the rural school will receive especial attention throughout. W. Th. F. 3:00 L. H. 10. Professor Hixson.

SOCIAL CASE WORK AS APPLIED TO THE SCHOOL.—This course is intended to familiarize teachers with those methods of Social Case Work which have proven most successful in family social welfare work and with their application to individual pupils. The delinquent child will receive especial attention, but the importance of helping the average child to a normal development will be stressed. "Case Histories" will form the basis of discussion throughout the course. W. Th. F. 11:05 L. H. 10. Professor Hixson.

LATIN

Professor Anderson

LATIN Ia.—Selections from Ovid. Daily (hours to be arranged). L. H. 12. Prerequisite: Three years of High School Latin.

LATIN IIb.—Selection from Horace. Daily (hours to be

LATIN Ib.—Selection from Horace. Daily (hours to be arranged). L. H. 12. Prerequisite: Latin I or equivalent.

THE TEACHING OF LATIN.—In addition to some study of methods, there will be practical exercises in reading, translating, and discussing passages from Latin authors and in turning English into Latin. M. T. Th. F. 9:05 L. H. 12.

Of these three courses in Latin probably only one will be given this summer. An effort will be made to accommodate as many as possible.

MATHEMATICS

Professor Simpson

COLLEGE ALGEBRA.—Selected topics of algebra that lie beyond the high school course. Daily 3:05 L. H. 23.

PLANE ANALYTICAL GEOMETRY. First Semester's Work.—Daily 11:05 L. H. 23.

ELEMENTARY CALCULUS.—Daily (hours to be arranged) L. H. 23.

NOTE.—Those interested in other advanced courses should correspond with the instructor.

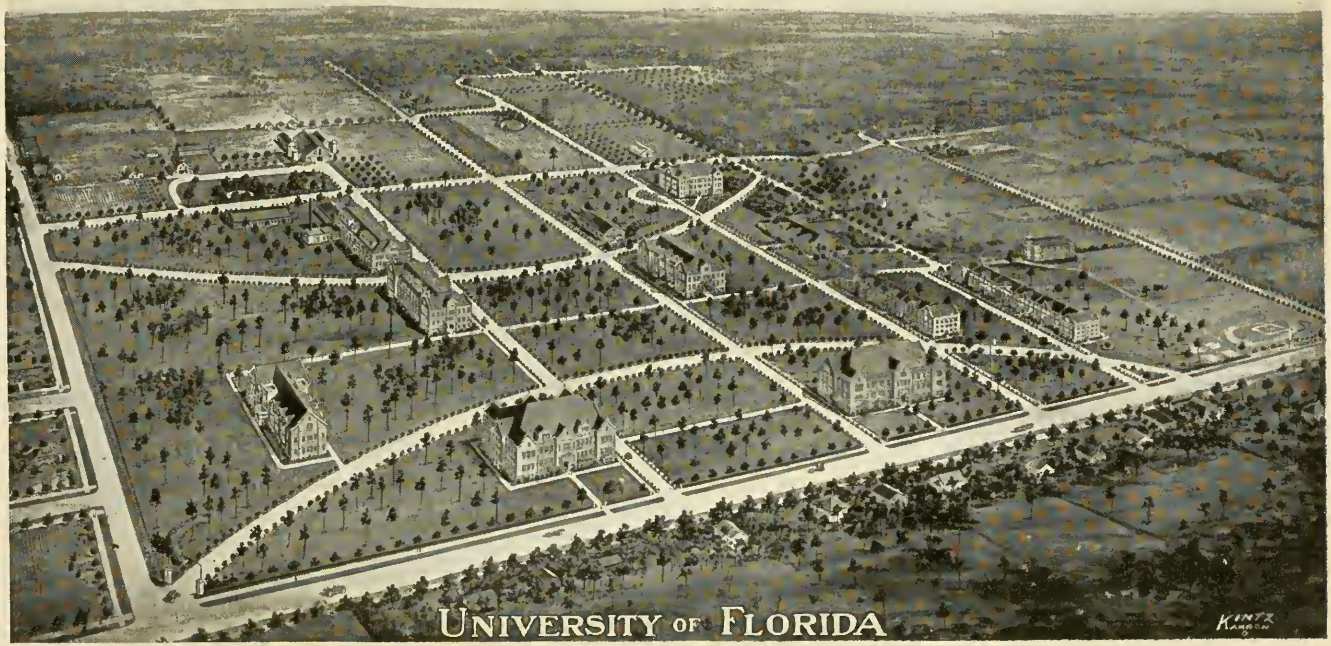
PHYSICAL EDUCATION

Mr. White

Mrs. Rumley

A normal course designed to meet the need of teachers, who, though not graduates of schools of Physical Education, are expected to have a practical knowledge of, and ability to

THOMAS AND BUCKMAN HALLS, Dormitories



BIRD'S-EYE VIEW OF THE UNIVERSITY CAMPUS

teach Physical Training in the public schools. The regulation costume will be bloomers, middies, and tennis shoes, white preferable.

Theory

PHYSICAL EDUCATION.—Its relation to health and effiiciency; place in the curriculum, administration in schools, physical diagnosis and examination. Management of gymnastic material, dances and games. Relation of Hygiene to Physical Education. Growth and Development. General topics in hygiene discussed from the standpoint of the teacher. Education and Ethical Value of Play. Organization and Equipment of Playgrounds. Choice and classification of games and dances for playground use. Coaching of team and games and sport.

Practice

GYMNASTICS.—Free standing exercises, marching tactics, apparatus work.

DANCING.—Simple folk and aesthetic dances, suitable for elementary or secondary school work.

GAMES AND PLAYS. — Especially designed for use in schools, playgrounds and Recreation Centers.

ORGANIZED SPORTS. — Basket Ball, Volley Ball, Playground Ball, Tennis, Swimming.

COURSE 1.—Elementary—Theory and Practice. Section I, M. W. F. 10:00 Gymnasium. Mrs. Rumley. Section II, T Th. 9:00 L. H. 10. Mr. White.

COURSE 2.—Advanced. Both the theory and practice in this course will be along the same lines as Course 1, only advanced work, and will be for those who have already had Course 1, or made some progress in this work. Section I, M. W. F. 9:00 Gymnasium. Mrs. Rumley. Section II, T. Th. 11:00 L. H. 10. Mr. White.

COURSE 3.—Folk Dancing. M. W. F. 4:00. Gymnasium. Mrs. Rumley.

COURSE 4.—Games and Sports. 7:00 P. M. Mr. White and Mrs. Rumley. This work to be given on the Campus.

SPANISH

Professor Crow

SPANISH Aa.—Pronunciation, grammar, exercises, conversation, reading of an easy text. Daily 11:05 L. H. 9.

SPANISH Ab.—Continuation of elementary Spanish A. Daily 3:05 L. H. 9.

SPANISH Ia.—Syntax, exercises, conversation, reading of intermediate texts. Daily 8:05 L. H. 9.

SPANISH COMMERCIAL CORRESPONDENCE.—Introduction to business Spanish. Hours (three) to be arranged. L. H. 9.

NOTE.—All classes scheduled will not be given; those selected depending upon the demand.

SPECIAL COURSES

On account of limited funds, a nominal fee will have to be charged for the following courses:

COMMERCIAL COURSES

The growing demand in Florida for teachers of commercial subjects as well as for bookkeepers and stenographers prompts us to strengthen these courses with a view to offering such instruction as will best meet these demands. Two eight-weeks' courses have been planned, the completion of which should prepare one for either teaching these subjects in the high schools of the State or doing bookkeeping or clerical work.

Both elementary and advanced courses will be offered in Bookkeeping, Shorthand, Typewriting, Commercial Law and Penmanship.

Tuition fees will be charged for commercial subjects as follows:

Bookkeeping, $7.50 per term.
Shorthand, $7.50 per term.
Typewriting, $10.00 per term, machine included.
Commercial Law, $3.00 per term.
Penmanship, $2.00 per term.
All courses, to one person, $25.00 per term.
Schedule of commercial classes:
Bookkeeping, beginning, 8:00 a. m.
Bookkeeping, advanced, 9:00 a. m.
Penmanship, special, 10:00 a. m.

Shorthand, beginning, 11:00 a. m.
Penmanship, general, 2:00 p. m.
Shorthand, advanced, 3:00 p. m.
Typewriting, any convenient period.
All classes in Peabody Hall, Room 18.

PUBLIC SPEAKING

Professor Chapman

EXPRESSION AND PUBLIC SPEAKING. — In the courses offered particular attention will be given to establishing a correct method of breathing, to correcting faulty articulation, and to teaching the principles of interpretation by voice, gesture, and facial expression. In these studies special attention will be given to preparing teachers for carrying on this work in the public schools. Those interested see Professor J. M. Chapman.

SPECIAL FEATURES

Lectures will be given from time to time by different members of the faculty on school libraries and the selection, use and care of apparatus for science courses in the high schools, and other subjects of interest.

A series of lectures will be given on mental and physical hygiene, and sanitation.

The State High School Inspector will give several lectures on high school administration, with special reference to Florida high schools.

The State Superintendent has promised to give a series of lectures on the Florida school situation.

Dr. C. F. Hodge, the noted Naturalist, will be with us again for the entire session, and give several popular lectures.

The University has ample equipment to provide games and recreational activities for the whole student body. Among the various games will be found: baseball; indoor baseball; basket ball; volley ball; cage-ball; tennis (4 courts); boxing and quoits. In addition to this, the swimming pool and new gymnasium will be available.

The Y. M. C. A. has a fine moving picture machine, and a large number of educational and travel films have been

secured, as well as some of the finest feature films in the country.

REGULATIONS

When credit of extension certificates is desired the following regulations established by the Summer School Board must be followed:

1. No teacher shall be allowed to take more than twenty hours per week of purely academic subjects.
2. No teacher shall take less than five hours per week of professional work.
3. The maximum hours per week, including professional, vocational and academic subjects, shall in no case exceed twenty-seven hours per week. Two laboratory hours to be counted as one hour of academic work.
4. No teacher shall take less than fifteen hours per week without special permission.
5. An extra fee of one dollar will be charged for any change of registration after the first week.

It is hoped that all teachers will recognize the wisdom of the above regulations. To fulfill its highest mission the Summer School should not be utilized merely for the purpose of "cramming" for examinations.

Attention is directed to the following section of the Summer School Act:

EXTENSION OF TEACHERS' CERTIFICATES

Section 6 of a recent Act of the Legislature provides that:

"All teachers attending any of the Summer Schools herein created and whose work entitles them to credit therefor, upon making proof of the same to the State Superintendent of Public Instruction, are hereby entitled to one year's extension on any Florida teacher's certificate they may hold and which has not fully expired, and such certificate may be extended one year for each succeeding session attended by the said teacher."

Under this section of the law, no certificate of credit making proof of the work done will be granted by the State Superintendent and the Presidents of the Summer Schools,

except to those teachers who attend the full term and whose work shall be satisfactory to the faculty concerned.

CREDIT TOWARDS NORMAL SCHOOL AND COLLEGE DEGREES

Section 5 of Summer School Act is as follows:

"All work conducted at the said Summer Schools shall be of such character as to entitle the students doing the same to collegiate, normal or professional credit therefor, and may be applied towards making a degree."

ROOMS

All who expect to occupy dormitory rooms, which in every case are comfortable and commodious, should make reservations as soon as possible.

For room reservations and general information as to the Summer School, address

H. W. Cox,
Dean of Teachers' College,
Gainesville, Fla.

University of Florida

Gainesville, Florida

Normal School and Teachers' College

Review Courses

A One-Year Course

A Two-Year Elementary Professional Course

Regular Four-Year Normal Course

Course Leading to an A.B. Degree in Education

Course Leading to a B.S. Degree in Education

The Summer School

For information write,

A. A. MURPHREE, *President*

or

H. W. COX, *Dean*

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